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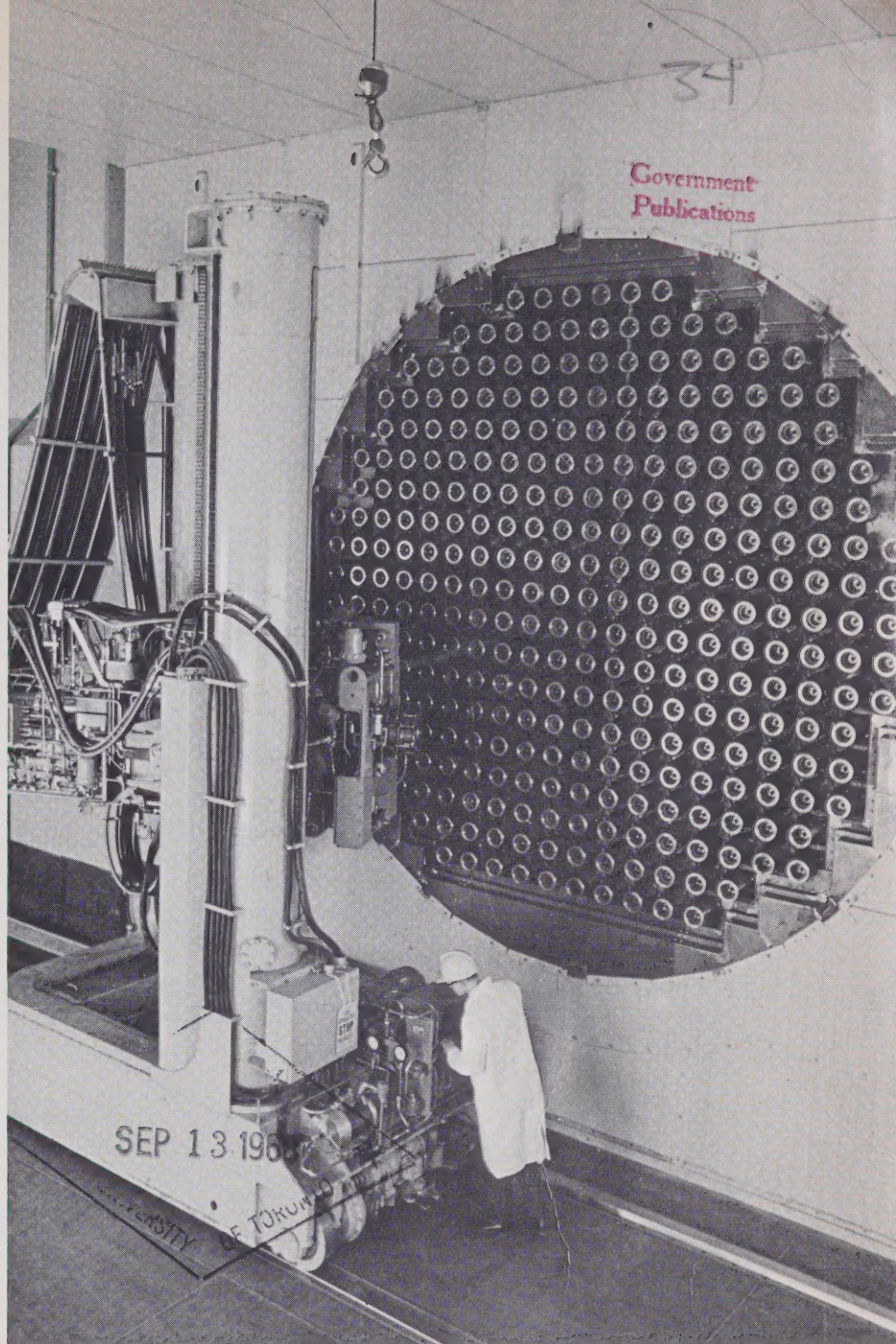


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ELECTRIC POWER IN CANADA • 1966



MAP SUPPLEMENT
ATLANTIC PROVINCES



**TRANSMISSION
AND
GENERATING FACILITIES**

Atlantic Provinces

**INLAND WATERS BRANCH
DEPARTMENT OF ENERGY, MINES AND RESOURCES**



TRANSMISSION
AND
GENERATING FACILITIES

Atlantic Provinces

ROGER DUHAMEL, F.R.S.C.
QUEEN'S PRINTER AND CONTROLLER OF STATIONERY
OTTAWA, 1967

Cat. No.: M23-8/1967-1

HYDRO

HYDRO

| No. | Development | River | Owner | Year Installed | | Rated Head ft. | No. of Units | Turbines | | Generators | |
|-----|-------------|-------|-------|----------------|-------------|----------------|--------------|-------------------|--------------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | Unit Capacity hp. | Total Capacity hp. | Unit Capacity kw. | Total Capacity kw. |

New Brunswick

| | | | | | | | | | | | |
|---|-------------|------------|------|------|------|-------|---|--------|---------|--------|---------|
| 1 | Beechwood | Saint John | NBEP | 1957 | 1962 | 57 | 2 | 45,000 | | 36,000 | |
| | | | | | | | 1 | 55,000 | 145,000 | 40,500 | 112,500 |
| 2 | Grand Falls | Saint John | NBEP | 1928 | 1931 | 125 | 4 | 20,000 | 80,000 | 15,750 | 63,000 |
| 3 | Tinker | Aroostook | MNBP | 1906 | 1965 | 85 | 2 | 2,000 | | 1,500 | |
| | | | | | | | 2 | 5,000 | | 3,520 | |
| | | | | | | | 1 | 33,000 | 47,000 | 20,800 | 30,840 |
| 4 | Tobique | Tobique | NBEP | 1953 | 1953 | 75 | 2 | 13,500 | 27,000 | 10,000 | 20,000 |
| 5 | Bathurst | Nepisiguit | BPPC | 1921 | 1929 | 108 | 2 | 5,000 | | 3,600 | |
| | | | | | | 110 | 1 | 5,000 | 15,500 | 3,600 | 10,800 |
| 6 | Sisson | Tobique | NBEP | 1965 | 1965 | 135 | 1 | 12,500 | 12,500 | 10,000 | 10,000 |
| 7 | Musquash | Musquash | NBEP | 1920 | 1920 | 99.5 | 2 | 3,670 | | 2,320 | |
| | | | | | | 124.5 | 1 | 3,760 | 11,100 | 2,320 | 6,960 |
| 8 | Milltown | St. Croix | NBEP | 1911 | 1962 | 21 | 3 | 1,080 | | 770 | |
| | | | | | | 25 | 1 | 500 | | 376 | |
| | | | | | | | 1 | 468 | 4,208 | 350 | 3,036 |
| 9 | Edmundston | Madawaska | FC | 1918 | 1918 | 21.1 | 2 | 1,030 | 2,060 | 1,000 | 2,000 |
| Total capacity of plants under 1,500 kw. | | | | | | | | | 3,025 | | 2,500 |
| Total capacity of turbines connected directly to mechanical equipment | | | | | | | | | 5,000 | | |

Total (all plants)

352,393

261,636

Nova Scotia

| | | | | | | | | | | | |
|----|------------------|---------------------|-------|------|------|------|---|--------|--------|-------|-------|
| 1 | Deep Brook | Mersey | NSPC | 1950 | 1950 | 46 | 2 | 6,400 | 12,800 | 4,500 | 9,000 |
| 2 | Big Falls | Mersey | NSPC | 1929 | 1929 | 58 | 2 | 6,350 | 12,700 | 4,500 | 9,000 |
| 3 | Weymouth Falls | Sissiboo | NSPC | 1960 | - | 122 | 1 | 12,000 | 12,000 | 9,000 | 9,000 |
| 4 | Lower Lake Falls | Mersey | NSPC | 1929 | 1929 | 48.5 | 2 | 5,300 | 10,600 | 3,690 | 7,380 |
| 5 | Cowie Falls | Mersey | NSPC | 1937 | 1937 | 43 | 2 | 5,100 | 10,200 | 3,600 | 7,200 |
| 6 | Ruth Falls | East, Sheet Harbour | NSPC | 1927 | 1936 | 110 | 2 | 3,290 | | 2,000 | |
| | | | | | | 109 | 1 | 4,300 | 10,880 | 2,970 | 6,970 |
| 7 | Hells Gates | Black | NSLPC | 1930 | 1949 | 185 | 1 | 4,500 | | 3,360 | |
| | | | | | | | 1 | 4,500 | 9,000 | 3,570 | 6,930 |
| 8 | Nictaux | Nictaux | NSLPC | 1954 | - | 382 | 1 | 9,000 | 9,000 | 6,800 | 6,800 |
| 9 | Gulch | Bear | NSPC | 1956 | - | 225 | 1 | 8,500 | 8,500 | 6,000 | 6,000 |
| 10 | Sissiboo Falls | Sissiboo | NSPC | 1960 | - | 87 | 1 | 8,000 | 8,000 | 6,000 | 6,000 |
| 11 | Upper Lake Falls | Mersey | NSPC | 1929 | 1929 | 31.5 | 2 | 3,000 | 6,000 | 2,700 | 5,400 |
| 12 | Hollow Bridge | Black | NSLPC | 1940 | - | 148 | 1 | 7,500 | 7,500 | 5,312 | 5,312 |

HYDRO

| No. | Development | River | Owner | Year Installed | | Rated Head ft. | No. of Units | Turbines | | Generators | |
|---|-------------------|---------------------|-------|----------------|-------------|----------------|--------------|-------------------|--------------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | Unit Capacity hp. | Total Capacity hp. | Unit Capacity kw. | Total Capacity kw. |
| NOVA SCOTIA (Cont'd) | | | | | | | | | | | |
| 13 | Tidewater | North East | NSPC | 1921 | 1921 | 91.5 | 2 | 3,450 | 6,900 | 2,320 | 4,640 |
| 14 | Lower Great Brook | Mersey | NSPC | 1955 | 1955 | 22 | 2 | 3,120 | 6,240 | 2,250 | 4,500 |
| 15 | Ridge | Bear | NSPC | 1957 | - | 140 | 1 | 5,300 | 5,300 | 4,000 | 4,000 |
| 16 | Dickie Brook | Dickie Brook | NSPC | 1948 | 1948 | 298 | 1 | 1,750 | | 1,200 | |
| | | | | | | | 1 | 1,750 | 3,500 | 2,600 | 3,800 |
| 17 | Avon No. 1 | Avon | NSLPC | 1958 | - | 117.5 | 1 | 5,000 | 5,000 | 3,750 | 3,750 |
| 18 | Malay Falls | East, Sheet Harbour | NSPC | 1924 | 1954 | 43 | 2 | 1,850 | | 1,200 | |
| | | | | | | 41 | 1 | 1,740 | 5,440 | 1,200 | 3,600 |
| 19 | Paradise | Paradise Brook | NSLPC | 1950 | - | 465 | 1 | 5,000 | 5,000 | 3,600 | 3,600 |
| 20 | Methal's | Methal's Brook | NSLPC | 1949 | - | 45 | 1 | 4,600 | 4,600 | 3,400 | 3,400 |
| 21 | Sandy Lake | North East | NSPC | 1927 | 1927 | 118 | 2 | 2,500 | 5,000 | 1,600 | 3,200 |
| 22 | White Rock | Gasperaux | NSLPC | 1952 | - | 58 | 1 | 4,000 | 4,000 | 3,200 | 3,200 |
| 23 | St. Croix | St. Croix | MBPP | 1934 | - | 148 | 1 | 4,200 | 4,200 | 3,000 | 3,000 |
| 24 | Avon No. 2 | Avon | NSLPC | 1929 | - | 142 | 1 | 3,900 | 3,900 | 3,000 | 3,000 |
| 25 | Lumsden | Black | NSLPC | 1942 | - | 72 | 1 | 4,500 | 4,500 | 2,800 | 2,800 |
| 26 | Mill Lake | North East | NSPC | 1921 | 1921 | 162.5 | 2 | 1,900 | 3,800 | 1,280 | 2,560 |
| 27 | Tusket | Tusket | NSPC | 1929 | 1929 | 18 | 3 | 940 | 2,820 | 720 | 2,160 |
| 28 | Salmon Hole | St. Croix | MBPP | 1938 | - | 75 | 1 | 2,500 | 2,500 | 2,000 | 2,000 |
| Total capacity of plants under 1,500 kw. | | | | | | | | | 6,550 | | 4,708 |
| Total capacity of turbines connected directly to mechanical equipment | | | | | | | | | | | |
| Total (all plants) | | | | | | | | | 196,430 | | 142,910 |

Newfoundland

| | | | | | | | | | | | |
|---|---------------|----------------------|------|------|------|-----|---|--------|---------|--------|---------|
| 1 | Twin Falls | Unknown | TFPC | 1962 | 1963 | 290 | 4 | 60,000 | 240,000 | 46,800 | 187,200 |
| 2 | Deer Lake | Humber | BPC | 1925 | 1930 | 247 | 7 | 16,000 | | 11,100 | |
| | | | | | | | 2 | 29,000 | 170,000 | 20,000 | 117,700 |
| 3 | Grand Falls | Exploits | PPP | 1909 | 1938 | 109 | 3 | 2,500 | | 1,500 | |
| | | | | | | | 1 | 36,000 | 43,500 | 26,000 | 30,500 |
| 4 | Menihek | Ashuanipi (Labrador) | IOCC | 1954 | 1960 | 34 | 2 | 6,000 | | 4,250 | |
| | | | | | | 40 | 1 | 13,500 | 25,500 | 10,200 | 18,700 |
| 5 | Bishops Falls | Exploits | PPP | 1909 | 1952 | 35 | 7 | 2,700 | | 2,025 | |
| | | | | | | | 2 | 1,700 | 22,300 | 1,500 | 17,175 |

HYDRO

| No. | Development | River | Owner | Year Installed | | Rated Head ft. | No. of Units | Turbines | | Generators | |
|---|----------------|----------------------|-------|----------------|-------------|----------------|--------------|-------------------|--------------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | Unit Capacity hp. | Total Capacity hp. | Unit Capacity kw. | Total Capacity kw. |
| NEWFOUNDLAND (Cont'd) | | | | | | | | | | | |
| 6 | Rattling Brook | Rattling Brook | NLPC | 1958 | 1958 | 307 | 2 | 8,500 | 17,000 | 6,375 | 12,750 |
| 7 | Mobile | Mobile | NLPC | 1951 | - | 370 | 1 | 13,000 | 13,000 | 9,350 | 9,350 |
| 8 | Watson's Brook | Corner Brook | BPC | 1958 | 1958 | 559 | 2 | 6,000 | 12,000 | 4,600 | 9,200 |
| 9 | Horse Chops | Horse Chops | NLPC | 1953 | - | 276 | 1 | 10,000 | 10,000 | 7,650 | 7,650 |
| 10 | Tors Cove | Tors Cove | NLPC | 1942 | 1951 | 173 | 2 1 | 2,850 3,550 | 9,250 | 2,000 2,500 | 6,500 |
| 11 | Cape Broyle | Horse Chops | NLPC | 1952 | - | 176 | 1 | 7,600 | 7,600 | 6,000 | 6,000 |
| 12 | Sandy Brook | Sandy Brook | NLPC | 1963 | - | 115 | 1 | 8,000 | 8,000 | 5,950 | 5,950 |
| 13 | Lookout Brook | Lookout Brook | WCPC | 1945 | 1958 | 575 | 2 1 | 1,850 3,600 | 7,300 | 1,400 2,400 | 5,200 |
| 14 | Petty Harbour | Petty Harbour | NLCP | 1908 | 1926 | 190 | 2 1 | 2,100 2,750 | 6,950 | 1,600 1,800 | 5,000 |
| 15 | New Chelsea | New Chelsea Brook | NLCP | 1957 | - | 275 | 1 | 5,600 | 5,600 | 4,000 | 4,000 |
| 16 | Seal Cove | Seal Cove | NLPC | 1922 | 1927 | 190 | 1 1 | 1,500 3,040 | 4,540 | 1,200 2,400 | 3,600 |
| 17 | Pierres Brook | Pierres Brook | NLPC | 1931 | - | 263 | 1 | 4,500 | 4,500 | 3,200 | 3,200 |
| 18 | Rocky Pond | Tors Cove | NLPC | 1943 | - | 107 | 1 | 4,200 | 4,200 | 3,200 | 3,200 |
| 19 | Lockston | Lockston | NLPC | 1956 | 1961 | 270 | 2 | 2,000 | 4,000 | 1,480 | 2,960 |
| 20 | Hearts Content | Hearts Content Brook | NLPC | 1960 | - | 150 | 1 | 3,600 | 3,600 | 2,400 | 2,400 |
| 21 | Buchans Brook | Buchans Brook | ASRC | 1927 | - | 163 | 1 | 2,359 | 2,359 | 1,760 | 1,760 |
| Total capacity of plants under 1,500 kw. | | | | | | | | | 7,690 | | 5,440 |
| Total capacity of turbines connected directly to mechanical equipment | | | | | | | | | 22,000 | | |
| Total (all plants) | | | | | | | | | 650,889 | | 465,435 |

THERMAL

THERMAL

| No. | Station | Location | Owner | Year Installed | | Fuel | Type of Prime Mover | Generators | | |
|-----|---------|----------|-------|----------------|-------------|------|---------------------|------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | No. | Unit Capacity kw. | Total Capacity kw. |

New Brunswick

| | | | | | | | | | | |
|----|------------------|-----------------|--------|------|------|-------------------------|----|------------------|------------------------------|---------|
| 1 | Courtenay Bay | East Saint John | NBEPCC | 1961 | 1966 | Oil | S | 1 1 1 | 50,000 12,600 110,000 | 172,600 |
| 2 | Grand Lake No. 2 | Newcastle Creek | NBEPCC | 1951 | 1963 | Coal | S | 2 1 1 | 5,000 15,000 60,000 | 85,000 |
| 3 | Chatham | Chatham | NBEPCC | 1948 | 1956 | Coal, oil | S | 1 1 | 12,500 20,000 | 32,500 |
| 4 | Lancaster | Lancaster | IPP | 1947 | 1960 | Oil | S | 1 1 1 | 2,000 10,000 12,500 | 24,500 |
| 5 | Bathurst | Bathurst | BPPC | 1937 | 1958 | Coal, oil | S | 1 1 1 | 6,000 7,600 7,000 | 20,600 |
| 6 | Edmundston | Edmundston | FC | 1949 | 1958 | Coal, wood- waste | S | 1 1 1 | 3,000 3,800 12,500 | 19,300 |
| 7 | Dalhousie | Dalhousie | NBIPC | 1929 | 1937 | Coal | S | 1 1 2 2 | 6,000 8,000 800 750 | 17,100 |
| 8 | Grand Lake No. 1 | Newcastle Creek | NBEPCC | 1931 | 1944 | Coal | S | 1 1 1 | 2,500 6,250 7,500 | 16,250 |
| 9 | Dock Street | Saint John | NBEPCC | 1929 | 1947 | Coal, oil | S | 1 1 | 6,000 10,000 | 16,000 |
| 10 | Atholville | Atholville | FC | 1929 | 1956 | Coal, wood- waste | S | 4 1 1 | 1,000 2,000 5,000 | 11,000 |
| 11 | Newcastle | Newcastle | FC | 1949 | 1949 | Coal | S | 1 1 | 2,000 2,500 | 4,500 |
| 12 | Saint John | Saint John | ASR | 1954 | 1962 | Oil | S | 1 1 | 2,500 1,000 | 3,500 |
| 13 | Edmundston | Edmundston | ME | 1947 | 1955 | Oil | IC | 2 1 | 690 1,876 | 3,256 |
| 14 | Campbellton | Campbellton | CC | 1946 | 1953 | Oil | IC | 1 1 1 | 240 1,136 1,360 | 2,736 |
| 15 | Grand Manan | Grand Manan | NBEPCC | 1957 | 1965 | Oil | IC | 1 1 1 1 | 200 250 700 500 | 1,650 |

Total capacity of plants 1,500 kw. and over (not listed above)

-

Total capacity of plants under 1,500 kw.

2,100

Total (all plants)

432,592

IC - Internal Combustion, S - Steam

THERMAL

| No. | Station | Location | Owner | Year Installed | | Fuel | Type of Prime Mover | Generators | | |
|-----|---------|----------|-------|----------------|-------------|------|---------------------|------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | No. | Unit Capacity kw. | Total Capacity kw. |

Nova Scotia

| | | | | | | | | | | |
|----|--------------------|--------------|-------|------|------|-----------------|----|------------------|--------------------------------------|---------|
| 1 | Lower Water Street | Halifax | NSLPC | 1944 | 1959 | Coal, oil | S | 1 2 1 2 | 12,500 20,000 25,000 45,000 | 167,500 |
| 2 | Glace Bay | Glace Bay | SPCL | 1932 | 1966 | Coal | S | 2 4 1 | 6,000 15,000 38,250 | 110,250 |
| 3 | Tufts Cove | Tufts Cove | NSLPC | 1965 | - | | S | 1 | 100,000 | 100,000 |
| 4 | Trenton | Trenton | NSPC | 1951 | 1959 | Coal | S | 2 2 | 10,000 20,000 | 60,000 |
| 5 | Sydney | Sydney | DOSCO | 1919 | 1943 | Coal, oil, gas | S | 1 2 1 1 | 7,600 3,000 5,000 16,000 | 34,600 |
| 6 | Harrison Lake | Maccan | NSPC | 1926 | 1949 | Coal | S | 1 1 1 1 | 15,000 6,250 1,600 4,000 | 26,850 |
| 7 | Port Hawkesbury | Point Tupper | NSP | 1962 | - | Coal | S | 1 | 10,000 | 10,000 |
| 8 | Brooklyn | Brooklyn | BMPC | 1943 | - | Oil, wood-waste | S | 1 | 5,170 | 5,170 |
| 9 | Dartmouth | Dartmouth | IOC | 1965 | - | Oil | | 1 | 3,750 | 3,750 |
| 10 | King Street | Yarmouth | NSLPC | 1937 | 1948 | Oil | IC | 1 1 2 | 320 400 600 | 1,920 |

Total capacity of plants 1,500 kw. and over (not listed above) 5,200

Total capacity of plants under 1,500 kw. 1,778

Total (all plants) 527,018

IC - Internal Combustion, S - Steam

THERMAL

| No. | Station | Location | Owner | Year Installed | | Fuel | Type of Prime Mover | Generators | | |
|-----|---------|----------|-------|----------------|-------------|------|---------------------|------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | No. | Unit Capacity kw. | Total Capacity kw. |

Prince Edward Island

| | | | | | | | | | | |
|---|---------------|---------------|-----|------|------|-----|----|---|--------|--------|
| 1 | Charlottetown | Charlottetown | MEC | 1931 | 1963 | Oil | S | 1 | 1,500 | 50,500 |
| | | | | | | | | 1 | 4,000 | |
| | | | | | | | | 2 | 7,500 | |
| | | | | | | | | 1 | 10,000 | |
| | | | | | | | | 1 | 20,000 | |
| 2 | Summerside | Summerside | MS | 1940 | 1963 | Oil | IC | 1 | 200 | 6,890 |
| | | | | | | | | 2 | 250 | |
| | | | | | | | | 1 | 555 | |
| | | | | | | | | 1 | 1,135 | |
| | | | | | | | | 2 | 2,250 | |

Total capacity of plants 1,500 kw. and over (not listed above)

-

Total capacity of plants under 1,500 kw.

100

Total (all plants)

57,490

Newfoundland

| | | | | | | | | | | |
|----|-------------------|------------------|------|------|------|-----|----|---|--------|--------|
| 1 | St. John's | St. John's | NLPC | 1957 | 1959 | Oil | S | 1 | 10,000 | 30,000 |
| | | | | | | | | 1 | 20,000 | |
| 2 | Corner Brook | Corner Brook | BPC | 1966 | - | Gas | GT | 1 | 25,000 | 25,000 |
| 3 | Holyrood | Holyrood | NPC | 1966 | - | Gas | GT | 1 | 12,500 | 12,500 |
| 4 | Grand Falls | Grand Falls | PPP | 1930 | 1931 | Oil | S | 2 | 5,000 | 10,000 |
| 5 | Tilt Cove | Tilt Cove | TCPC | 1960 | - | Oil | S | 1 | 5,000 | 5,000 |
| 6 | Wabush Lake | Wabush Lake | WM | | 1963 | Oil | IC | 4 | 1,000 | 4,000 |
| 7 | Labrador City | Carol Lake | IOCC | | | Oil | | | | 3,910 |
| 8 | Gander (Stand-by) | Gander | DOT | 1948 | 1962 | Oil | IC | 3 | 1,000 | 3,000 |
| 9 | St. John's | St. John's | NLPC | 1956 | - | Oil | IC | 1 | 2,500 | 2,500 |
| 10 | Port aux Basques | Port aux Basques | WCPC | 1945 | 1964 | Oil | IC | 3 | 350 | 1,935 |
| | | | | | | | | 2 | 250 | |
| | | | | | | | | 1 | 85 | |
| | | | | | | | | 1 | 300 | |
| 11 | Salt Pond | Salt Pond | NLPC | 1964 | 1964 | Oil | IC | 3 | 500 | 1,500 |

Total capacity of plants 1,500 kw. and over (not listed above)

4,000

Total capacity of plants under 1,500 kw.

9,392

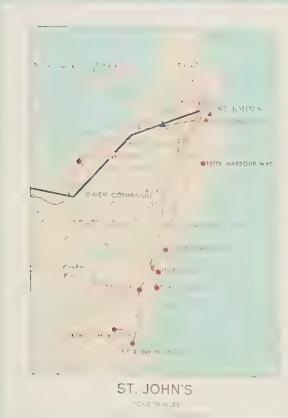
Total (all plants)

112,737

GT - Gas Turbine, IC - Internal Combustion, S - Steam

OWNER CODE INDEX

| CODE | OWNER |
|-------------|---|
| ASR..... | Atlantic Sugar Refineries |
| ASRC..... | American Smelting and Refining Company Limited |
| BMPC | Bowaters Mersey Paper Company Limited |
| BPC..... | Bowater Power Company Limited |
| BPPC..... | Bathurst Power and Paper Company Limited |
| CC..... | City of Campbellton |
| DOSCO..... | Dominion Iron and Steel Company Limited |
| DOT..... | Department of Transport, Government of Canada |
| FC..... | Fraser Companies Limited |
| FMMC | First Maritime Mining Corporation |
| IOC | Imperial Oil Limited |
| IOCC | Iron Ore Company of Canada |
| IPP | Irving Pulp and Paper Limited |
| MBPP | Minas Basin Pulp and Power Company |
| ME | Municipality of Edmundston |
| MEC | Maritime Electric Company Limited |
| MNBP | Maine and New Brunswick Electrical Power Co. Ltd. |
| MS..... | Municipality of Summerside |
| NBEPC..... | New Brunswick Electric Power Commission |
| NBIPC | New Brunswick International Paper Company Limited |
| NLPC..... | Newfoundland Light and Power Co. Limited |
| NPC..... | Newfoundland and Labrador Power Commission |
| NSLPC..... | Nova Scotia Light and Power Company Limited |
| NSP..... | Nova Scotia Pulp Limited |
| NSPC..... | Nova Scotia Power Commission |
| PPP..... | Price (Nfld) Pulp and Paper Limited |
| SPCL..... | Seaboard Power Corporation Limited |
| TCPC..... | Tilt Cove Power Corporation |
| TFPC..... | Twin Falls Power Company Limited |
| WCPC | West Coast Power Company Limited |
| WM | Wabush Mines |



DEPARTMENT OF ENERGY, MINES AND RESOURCES
WATER RESOURCES BRANCH
1968

ATLANTIC PROVINCES MAIN ELECTRIC TRANSMISSION SYSTEMS AND PRINCIPAL POWER GENERATING DEVELOPMENTS

SCALE OF MILES

LEGEND

GENERATING STATIONS

Hydroelectric
Thermal
Nuclear

TRANSMISSION LINES

220 kV
138 kV
69 kV
33 kV
15 kV

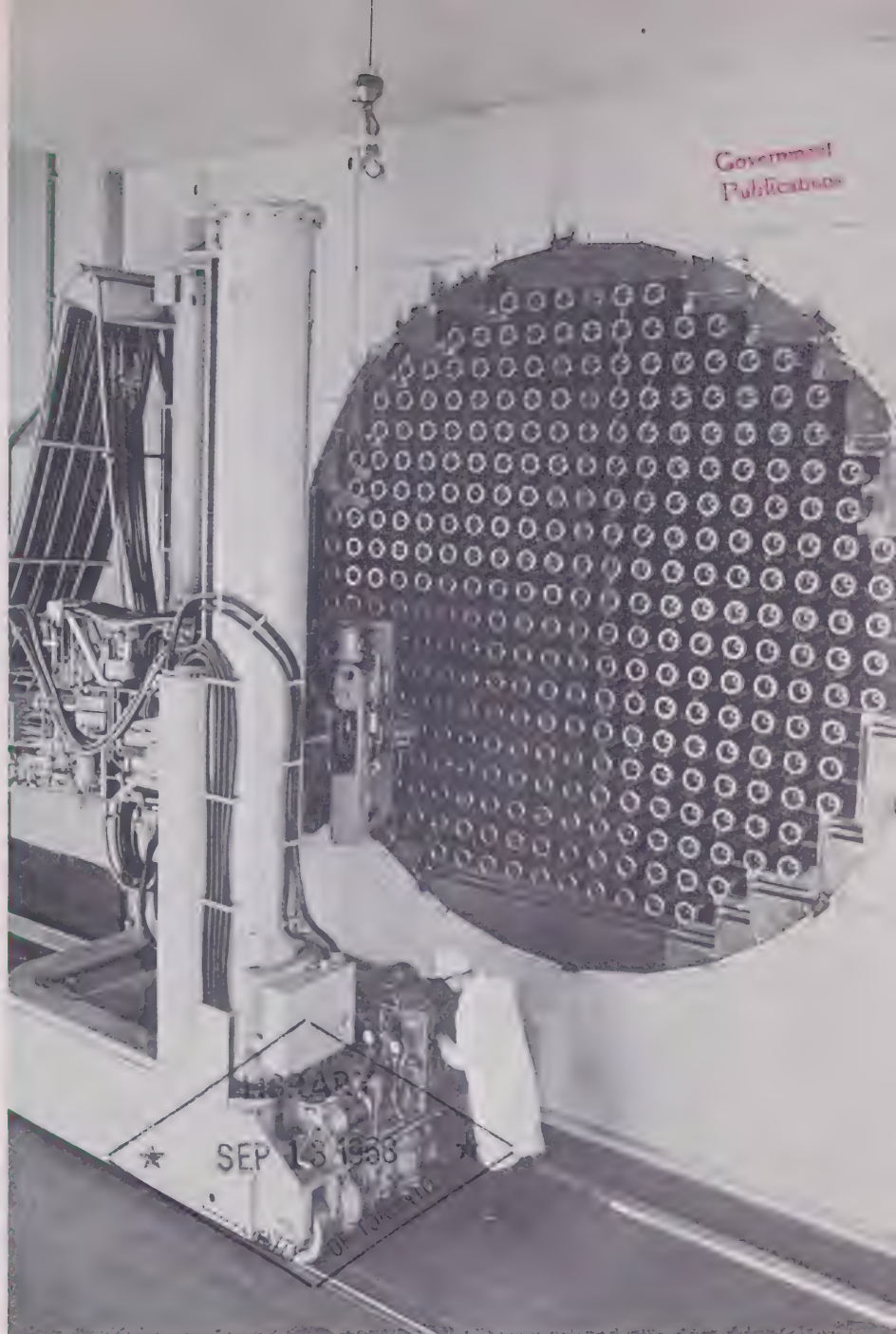
OWNERSHIP

Provincial
Federal
Municipal
Private

DECEMBER 1968

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S22



Government
Publications

SEP 18 1968

ELECTRIC POWER IN CANADA • 1966



MAP SUPPLEMENT
BRITISH COLUMBIA • YUKON
and NORTHWEST TERRITORIES



**TRANSMISSION
AND
GENERATING FACILITIES**

**British Columbia • Yukon
and Northwest Territories**

**INLAND WATERS BRANCH
DEPARTMENT OF ENERGY, MINES AND RESOURCES**

ROGER DUHAMEL, F.R.S.C.
QUEEN'S PRINTER AND CONTROLLER OF STATIONERY
OTTAWA, 1967

Cat. No.: M23-8/1967-5

HYDRO

HYDRO

| No. | Development | River | Owner | Year Installed | | Rated Head ft. | No. of Units | Turbines | | Generators | |
|-----|-------------|-------|-------|----------------|-------------|----------------|--------------|-------------------|--------------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | Unit Capacity hp. | Total Capacity hp. | Unit Capacity kw. | Total Capacity kw. |

British Columbia

| | | | | | | | | | | | |
|----|--------------------|-------------------------------|-------|------|------|-------|---|---------|-----------|---------|---------|
| 1 | Kemano | Nechako to Kemano | ALCAN | 1954 | 1958 | 2,500 | 4 | 150,000 | | 97,600 | |
| | | | | | | | 3 | 150,000 | 1,050,000 | 105,600 | 707,200 |
| 2 | Waneta | Pend d'Oreille | CMSC | 1954 | 1966 | 210 | 1 | 130,000 | | 72,000 | |
| | | | | | | | 2 | 120,000 | | 72,000 | |
| | | | | | | | 1 | 130,000 | 500,000 | 76,000 | 292,000 |
| 3 | Bridge River No. 2 | Bridge to Seton Lake | BCHPA | 1959 | 1960 | 1,264 | 4 | 82,000 | 328,000 | 62,000 | 248,000 |
| 4 | Bridge River No. 1 | Bridge to Seton Lake | BCHPA | 1948 | 1954 | 1,264 | 4 | 69,000 | 276,000 | 45,000 | 180,000 |
| 5 | Cheakamus | Cheakamus to Squamish | BCHPA | 1957 | 1957 | 954 | 2 | 95,000 | 190,000 | 70,000 | 140,000 |
| 6 | John Hart | Campbell | BCHPA | 1947 | 1953 | 390 | 6 | 28,000 | 168,000 | 20,000 | 120,000 |
| 7 | Ruskin | Stave | BCHPA | 1930 | 1950 | 123 | 3 | 47,000 | 141,000 | 35,200 | 105,600 |
| 8 | Brilliant | Kootenay | CMSC | 1944 | 1949 | 90 | 3 | 37,000 | 111,000 | 27,200 | 81,600 |
| 9 | Wahleach | Wahleach Lake to Fraser | BCHPA | 1952 | - | 1,880 | 1 | 82,000 | 82,000 | 60,000 | 60,000 |
| 10 | Upper Bonnington | Kootenay | CMSC | 1907 | 1940 | 70 | 2 | 8,000 | | 5,062 | |
| | | | | | | | 2 | 9,000 | | 6,750 | |
| | | | | | | | 2 | 26,000 | 86,000 | 15,750 | 55,124 |
| 11 | Ladore Falls | Campbell | BCHPA | 1956 | 1957 | 122 | 2 | 35,000 | 70,000 | 27,000 | 54,000 |
| 12 | Stave Falls | Stave | BCHPA | 1912 | 1925 | 110 | 4 | 13,000 | | 10,500 | |
| | | | | | | 113 | 1 | 15,000 | 67,000 | 10,500 | 52,500 |
| 13 | Lake Buntzen No. 1 | Lake Buntzen to Burrard Inlet | BCHPA | 1951 | - | 380 | 1 | 70,000 | 70,000 | 50,000 | 50,000 |
| 14 | South Slokan | Kootenay | CMSC | 1928 | 1929 | 70 | 3 | 25,000 | 75,000 | 15,750 | 47,250 |
| 15 | Lower Bonnington | Kootenay | WKPL | 1925 | 1926 | 70 | 3 | 20,000 | 60,000 | 15,750 | 47,250 |
| 16 | Seton | Seton Creek | BCHPA | 1956 | - | 147 | 1 | 58,500 | 58,500 | 42,000 | 42,000 |
| 17 | Corra Linn | Kootenay | CMSC | 1932 | 1932 | 53 | 3 | 19,000 | 57,000 | 13,500 | 40,500 |
| 18 | Whatshan | Whatshan | BCHPA | 1951 | 1956 | 690 | 3 | 16,500 | 49,500 | 11,250 | 33,750 |
| 19 | Strathcona | Campbell | BCHPA | 1958 | - | 140 | 1 | 42,000 | 42,000 | 33,750 | 33,750 |
| 20 | Stillwater | Lois | MBPR | 1930 | 1948 | - | 2 | 25,000 | 50,000 | 16,200 | 32,400 |
| 21 | Clowhom Falls | Clowhom | BCHPA | 1958 | - | 145 | 1 | 40,000 | 40,000 | 30,000 | 30,000 |

HYDRO

| No. | Development | River | Owner | Year Installed | | Rated Head ft. | No. of Units | Turbines | | Generators | |
|---------------------------|--------------------|--------------------------------|-------|----------------|-------------|----------------------|------------------|----------------------------------|--------------------|--------------------------------|--------------------|
| | | | | First Unit | Latest Unit | | | Unit Capacity hp. | Total Capacity hp. | Unit Capacity kw. | Total Capacity kw. |
| BRITISH COLUMBIA (Cont'd) | | | | | | | | | | | |
| 22 | Puntledge | Puntledge | BCHPA | 1955 | - | 340 | 1 | 35,000 | 35,000 | 27,000 | 27,000 |
| 23 | Lake Buntzen No. 2 | Lake Buntzen to Burrard Inlet | BCHPA | 1913 | 1919 | 380 | 3 | 13,500 | 40,500 | 8,900 | 26,700 |
| 24 | Jordan River | Jordan | BCHPA | 1911 | 1931 | 1,010 | 2 1 1 | 5,430 10,125 18,000 | 38,985 | 3,200 8,000 12,000 | 26,400 |
| 25 | Ash River | Ash | BCHPA | 1959 | - | 735 | 1 | 35,000 | 35,000 | 25,200 | 25,200 |
| 26 | La Joie | Bridge | BCHPA | 1957 | - | 176 | 1 | 30,000 | 30,000 | 22,000 | 22,000 |
| 27 | Powell River | Powell | MBPR | 1911 | 1926 | 157 147 147 | 1 1 2 | 13,500 3,600 3,000 | 23,100 | 12,000 3,750 2,800 | 21,350 |
| 28 | Elko | Elk | EKPC | 1923 | 1924 | 190 | 2 | 7,500 | 15,000 | 6,000 | 12,000 |
| 29 | Ocean Falls | Link | CZC | 1917 | 1932 | 150 | 1 1 2 | 2,100 2,100 6,300 | 16,800 | 1,720 1,750 4,200 | 11,870 |
| 30 | Falls River | Big Falls Creek | BCHPA | 1930 | 1960 | 248 | 2 | 6,000 | 12,000 | 4,800 | 9,600 |
| 31 | Nelson | Kootenay | CN | 1907 | 1950 | 60 60 70 70 | 1 1 1 1 | 1,670 1,900 3,000 6,750 | 13,320 | 750 1,000 2,120 4,800 | 8,670 |
| 32 | Alouette | Alouette Lake to Stave Lake | BCHPA | 1928 | - | 125.5 | 1 | 12,500 | 12,500 | 8,000 | 8,000 |
| 33 | Walter Hardman | Cranberry Creek | COR | 1960 | 1965 | 770 | 2 | 5,800 | 11,600 | 4,000 | 8,000 |
| 34 | Beach | Britannia Creek Furry Creek | ACL | 1916 | 1917 | 1,835 760 | 2 1 | 3,750 3,750 | 11,250 | 2,000 2,000 | 6,000 |
| 35 | Shuswap Falls | Shuswap | BCHPA | 1929 | 1942 | 72 82 | 1 1 | 3,800 4,000 | 7,800 | 2,400 2,800 | 5,200 |
| 36 | Aberfeldie | Bull | EKPC | 1922 | 1922 | 275 | 2 | 3,650 | 7,300 | 2,500 | 5,000 |
| 37 | Spillimacheen | Spillimacheen | BCHPA | 1955 | 1955 | 207 | 2 1 | 1,200 3,000 | 5,400 | 900 2,200 | 4,000 |
| 38 | Tennent Creek | Tennent Creek | WML | 1966 | 1966 | 2,050 | 1 | 4,500 | 4,500 | 3,060 | 3,060 |
| 39 | Woodfibre | Woodfibre Creek | RC | 1947 | - | 920 | 1 | 3,650 | 3,650 | 2,250 | 2,250 |

HYDRO

| No. | Development | River | Owner | Year Installed | | Rated Head ft. | No. of Units | Turbines | | Generators | |
|-----|-------------|-------|-------|----------------|-------------|----------------|--------------|-------------------|--------------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | Unit Capacity hp. | Total Capacity hp. | Unit Capacity kw. | Total Capacity kw. |

BRITISH COLUMBIA (Cont'd)

| | | | | | | | | | | | |
|----|------------|----------------------------------|----|------|---|-----|---|-------|-------|-------|-------|
| 40 | Port Alice | Victoria Lake to Neroutsos Inlet | RC | 1953 | - | 425 | 1 | 3,200 | 3,200 | 2,000 | 2,000 |
|----|------------|----------------------------------|----|------|---|-----|---|-------|-------|-------|-------|

Total capacity of plants under 1,500 kw. 11,995 7,848

Total capacity of turbines connected directly to mechanical equipment 41,710

Total (all plants) 3,951,610 2,695,072

Yukon Territory

| | | | | | | | | | | | |
|---|-------------------|----------|------|------|------|-----|---|-------|--------|-------|--------|
| 1 | Whitehorse Rapids | Yukon | NCPC | 1958 | 1958 | 61 | 2 | 7,500 | 15,000 | 5,695 | 11,390 |
| 2 | North Fork | Klondike | YCGC | 1911 | 1935 | 220 | 1 | 5,000 | | 3,600 | |
| | | | | | | | 1 | 5,000 | | 2,700 | |
| | | | | | | | 1 | 5,000 | 15,000 | 3,750 | 10,050 |
| 3 | Mayo River | Mayo | NCPC | 1952 | 1957 | 110 | 2 | 3,000 | 6,000 | 2,550 | 5,100 |

Total capacity of plants under 1,500 kw. 2,140 1,650

Total capacity of turbines connected directly to mechanical equipment -

Total (all plants) 38,140 28,190

Northwest Territories

| | | | | | | | | | | | |
|---|---------------|-------------|------|------|---|-----|---|--------|--------|--------|--------|
| 1 | Taltson | Taltson | NCPC | 1965 | - | - | 1 | 25,000 | 25,000 | 18,000 | 18,000 |
| 2 | Snare Falls | Snare | NCPC | 1960 | - | 63 | 1 | 9,200 | 9,200 | 7,000 | 7,000 |
| 3 | Snare Rapids | Snare | NCPC | 1948 | - | 56 | 1 | 8,350 | 8,350 | 7,000 | 7,000 |
| 4 | Bluefish Lake | Yellowknife | CMSC | 1941 | - | 110 | 1 | 4,700 | 4,700 | 3,360 | 3,360 |

Total capacity of plants under 1,500 kw. - -

Total capacity of turbines connected directly to mechanical equipment -

Total (all plants) 47,250 35,360

THERMAL

THERMAL

| No. | Station | Location | Owner | Year Installed | | Fuel | Type of Prime Mover | Generators | | |
|-----|---------|----------|-------|----------------|-------------|------|---------------------|------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | No. | Unit Capacity kw. | Total Capacity kw. |

British Columbia

| | | | | | | | | | | |
|----|-----------------|-----------------|-------|------|------|-----------------------|----|------------------|-----------------------------------|---------|
| 1 | Burrard | Vancouver | BCHPA | 1962 | 1965 | Gas, oil | S | 3 | 162,000 | 486,000 |
| 2 | Port Mann | New Westminster | BCHPA | 1959 | 1959 | Oil | GT | 4 | 25,000 | 100,000 |
| 3 | Georgia | Chemainus | BCHPA | 1958 | 1959 | Oil | GT | 2 2 | 19,750 18,000 | 75,500 |
| 4 | Watson Island | Watson Island | CCC | 1950 | 1966 | Oil, wood-waste | S | 2 1 | 7,500 34,560 | 49,560 |
| 5 | Harmac | Nanaimo | MBPR | 1954 | 1963 | Oil, wood-waste | S | 1 1 1 | 31,500 4,000 1,250 | 36,750 |
| 6 | Somass Mill | Port Alberni | MBPR | 1963 | - | Wood-waste | S | 1 | 26,000 | 26,000 |
| 7 | Prince George | Prince George | BCHPA | 1957 | 1963 | Oil | IC | 7 | 3,000 | 21,000 |
| 8 | Dawson Creek | Dawson Creek | BCHPA | 1953 | 1963 | Gas, oil | IC | 2 6 | 1,000 3,000 | 20,000 |
| 9 | Port Alice | Port Alice | RC | 1942 | 1957 | Oil, wood-waste | S | 1 2 1 | 3,200 3,500 6,000 | 16,200 |
| 10 | Chetwynd | Chetwynd | BCHPA | 1958 | 1965 | Gas, oil | IC | 2 1 1 4 | 600 800 1,000 3,000 | 15,000 |
| 11 | Powell River | Powell River | MBPR | 1948 | 1960 | Wood-waste, oil | S | 1 1 1 1 | 1,350 1,200 10,500 1,875 | 14,925 |
| 12 | Ocean Falls | Ocean Falls | CZC | 1930 | 1950 | Oil, wood-waste | S | 1 1 1 1 | 3,000 2,000 4,000 5,000 | 14,000 |
| 13 | New Westminster | New Westminster | CZB | 1912 | 1950 | Wood-waste | S | 1 1 1 | 5,000 1,500 6,000 | 12,500 |
| 14 | Eburne Sawmills | Vancouver | CFP | 1960 | 1960 | Wood-waste | S | 2 | 5,750 | 11,500 |
| 15 | Kitimat | Kitimat | ALCAN | 1954 | 1959 | Oil | IC | 8 | 1,000 | 8,000 |
| 16 | Taylor | Taylor | PP | 1957 | 1957 | Gas | S | 3 | 2,500 | 7,500 |
| 17 | Kelowna | Kelowna | SMS | 1950 | 1963 | Wood-waste, oil, coal | S | 1 1 1 1 | 750 2,000 3,500 1,000 | 7,250 |

GT - Gas Turbine, IC - Internal Combustion, S - Steam

THERMAL

| No. | Station | Location | Owner | Year Installed | | Fuel | Type of Prime Mover | Generators | | |
|---------------------------|-------------------------|----------------|-------|----------------|-------------|--------------------|---------------------|----------------------------|--|--------------------|
| | | | | First Unit | Latest Unit | | | No. | Unit Capacity kw. | Total Capacity kw. |
| BRITISH COLUMBIA (Cont'd) | | | | | | | | | | |
| 18 | Woodfibre | Woodfibre | RC | 1948 | 1961 | Oil, wood, waste | S | 2 1 | 2,000 3,000 | 7,000 |
| 19 | Smithers | Smithers | BCHPA | 1951 | 1965 | Oil | IC | 2 1 2 1 | 560 760 1,000 3,000 | 6,880 |
| 20 | Dry Dock | Prince Rupert | BCHPA | 1950 | 1963 | Oil | IC | 3 1 1 | 800 1,970 2,034 | 6,404 |
| 21 | Mica Creek | Mica | BCHPA | 1965 | 1965 | Oil | IC | 1 2 1 2 | 675 1,000 2,500 500 | 6,175 |
| 22 | Port Mellon | Port Mellon | CFP | 1928 | 1947 | Oil | S | 1 1 1 | 500 1,500 3,000 | 5,000 |
| 23 | Semi-mobile unit No. 87 | | BCHPA | 1965 | - | Oil | IC | 1 | 5,000 | 5,000 |
| 24 | Cassiar | Cassiar | CAC | 1952 | 1966 | Oil | IC | 3 2 1 1 1 1 | 300 350 450 650 1,200 900 | 4,800 |
| 25 | Vancouver | Vancouver | MBPR | 1949 | 1956 | Wood-waste | S | 1 1 | 750 4,000 | 4,750 |
| 26 | Kimberley (Stand-by) | Kimberley | CMSC | 1927 | 1928 | Coal | S | 3 | 1,500 | 4,500 |
| 27 | Victoria | Victoria | BCFP | 1940 | 1950 | Wood-waste | S | 1 1 | 3,000 1,500 | 4,500 |
| 28 | Youbou | Youbou | BCFP | 1929 | 1958 | Wood-waste | S | 1 2 1 | 800 750 2,000 | 4,300 |
| 29 | Giscome | Giscome | ELS | 1951 | 1956 | Wood-waste, oil | S IC | 1 1 1 | 1,500 2,400 300 | 4,200 |
| 30 | Burns Lake | Burns Lake | BCHPA | 1954 | 1965 | Oil | IC | 1 4 2 | 800 250 1,136 | 4,072 |
| 31 | Elk Falls | Campbell River | EFC | 1964 | 1965 | Wood-waste | S | 1 1 | 3,255 800 | 4,055 |
| 32 | Hammond | Hammond | BCFP | 1928 | 1929 | Wood-waste | S | 2 | 2,000 | 4,000 |
| 33 | Chemainus | Chemainus | MBPR | 1925 | 1950 | Wood-waste, oil | S | 1 1 | 3,000 750 | 3,750 |

IC - Internal Combustion, S - Steam

THERMAL

| No. | Station | Location | Owner | Year Installed | | Fuel | Type of Prime Mover | Generators | | |
|-----|---------------|-------------------------|-------|----------------|-------------|------------|---------------------|-----------------------|-------------------------------------|--------------------|
| | | | | First Unit | Latest Unit | | | No. | Unit Capacity kw. | Total Capacity kw. |
| 34 | Vancouver | Vancouver | BCSRC | 1947 | 1960 | Gas, oil | S | 3 | 1,250 | 3,750 |
| 35 | Jedway | Jedway | JIOC | - | - | Oil | IC | 3 1 | 1,000 225 | 3,225 |
| 36 | Fort Nelson | Fort Nelson | BCHPA | 1960 | 1960 | Oil, gas | IC | 1 1 1 1 1 | 1,200 600 261 100 1,000 | 3,161 |
| 37 | Honeymoon Bay | Honeymoon Bay | WFI | 1949 | 1961 | Oil | S | 1 1 | 1,000 1,760 | 2,760 |
| 38 | Port Hardy | Port Hardy | BCHPA | 1959 | 1965 | Oil | IC | 1 1 2 1 | 600 500 300 1,000 | 2,700 |
| 39 | Mesachie Lake | Mesachie Lake | HLC | 1943 | 1949 | Wood-waste | S | 1 1 1 | 1,600 750 260 | 2,610 |
| 40 | Endako | Endako | EM | 1964 | 1964 | Oil | IC | 1 1 | 1,250 1,000 | 2,250 |
| 41 | Hazelton | Hazelton | BCHPA | 1965 | 1965 | Oil | IC | 3 2 1 | 200 600 250 | 2,050 |
| 42 | Valemount | Valemount | BCHPA | 1962 | 1966 | Oil | IC | 3 1 1 | 350 500 500 | 2,050 |
| 43 | Revelstoke | Revelstoke | COR | 1926 | 1954 | Oil | IC | 2 1 1 | 300 400 1,000 | 2,000 |
| 44 | Wells | Wells | CGQM | 1936 | 1955 | Oil | IC | 1 2 1 2 2 | 350 300 125 250 150 | 1,875 |
| 45 | Tide Camp | Stewart | GM | 1965 | 1965 | Oil | IC | 2 2 | 500 400 | 1,800 |
| 46 | McBride | McBride | BCHPA | 1951 | 1957 | Oil, gas | IC | 3 | 600 | 1,800 |
| 47 | Sandspit | Queen Charlotte Islands | BCHPA | 1962 | 1966 | Oil | IC | 2 1 | 600 500 | 1,700 |
| 48 | Vanderhoof | Vanderhoof | BCHPA | 1953 | 1955 | Oil | IC | 1 1 | 600 1,000 | 1,600 |

Total capacity of plants 1,500 kw. and over (not listed above) 7,500

Total capacity of plants under 1,500 kw. 39,400

Total (all plants) 1,083,302

IC - Internal Combustion, S - Steam

THERMAL

| No. | Station | Location | Owner | Year Installed | | Fuel | Type of Prime Mover | Generators | | |
|-----|---------|----------|-------|----------------|-------------|------|---------------------|------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | No. | Unit Capacity kw. | Total Capacity kw. |

Northwest Territories

| | | | | | | | | | | |
|---|---------------|---------------|------|------|------|-----|----|---|-------|-------|
| 1 | Frobisher Bay | Frobisher Bay | NCPC | 1963 | 1966 | Oil | IC | 1 | 1,000 | 3,960 |
| | | | | | | | | 1 | 960 | |
| | | | | | | | | 1 | 500 | |
| 2 | Port Radium | Port Radium | EMR | 1936 | 1953 | Oil | GT | 1 | 1,500 | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | IC | 2 | 150 | |
| | | | | | | | | 1 | 864 | |
| | | | | | | | | 2 | 650 | |
| 3 | Inuvik | Inuvik | NCPC | 1957 | 1963 | Oil | IC | 2 | 375 | 3,639 |
| | | | | | | | | 1 | 150 | |
| | | | | | | | | 1 | 960 | |
| | | | | | | | S | 1 | 1,000 | |
| | | | | | | | | 1 | 600 | |
| | | | | | | | | | | |
| 4 | Fort Smith | Fort Smith | NCPC | 1956 | 1962 | Oil | IC | 1 | 280 | 3,232 |
| | | | | | | | | 1 | 600 | |
| | | | | | | | | 1 | 1,000 | |
| | | | | | | | | 1 | 392 | |
| | | | | | | | | 1 | 960 | |
| 5 | Hay River | Hay River | NU | | | | | 1 | 275 | 1,975 |
| | | | | | | | | 1 | 300 | |
| | | | | | | | | 1 | 650 | |
| | | | | | | | | 1 | 500 | |
| | | | | | | | | 1 | 250 | |
| 6 | Tungsten | Tungsten | CTMC | 1962 | 1962 | Oil | IC | 3 | 500 | 1,500 |

Total capacity of plants 1,500 kw. and over (not listed above)

-

Total capacity of plants under 1,500 kw.

9,662

Total (all plants)

27,248

Yukon Territory

Total capacity of plants 1,500 kw. and over (not listed above)

-

Total capacity of plants under 1,500 kw.

4,500

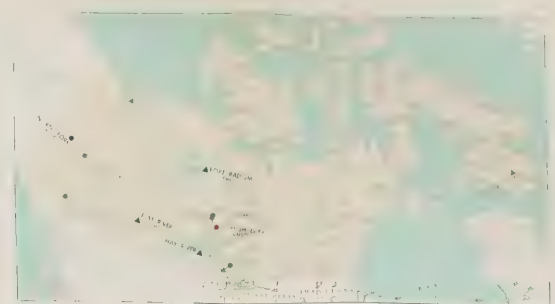
Total (all plants)

4,500

GT - Gas Turbine, IC - Internal Combustion, S - Steam

OWNER CODE INDEX

| CODE | OWNER |
|--------------|---|
| ACL..... | Anaconda Company (Canada) Limited |
| ALCAN..... | Aluminum Company of Canada Limited |
| BCFP..... | British Columbia Forest Products Limited |
| BCHPA..... | British Columbia Hydro and Power Authority |
| BCSRC..... | British Columbia Sugar Refining Company Limited |
| CAC..... | Cassiar Asbestos Corporation Limited |
| CCC..... | Columbia Cellulose Company Limited |
| CFP..... | Canadian Forest Products Limited |
| CGQM..... | Cariboo Gold Quartz Mining Company Limited |
| CMSC..... | Cominco Limited |
| CN..... | City of Nelson |
| COR..... | City of Revelstoke |
| CTMC..... | Canada Tungsten Mining Corporation Limited |
| CZB..... | Crown Zellerbach Building Materials Limited |
| CZC..... | Crown Zellerbach Canada Limited |
| EFC..... | Elk Falls Company Limited |
| EKPC..... | East Kootenay Power Company Limited |
| ELS..... | Eagle Lake Sawmills Company Limited |
| EM..... | Endako Mines Limited |
| EMR..... | Eldorado Mining and Refining Limited |
| GM..... | Granduc Mines Limited |
| HLC.../..... | Hillcrest Lumber Company Limited |
| JIOC..... | Jedway Iron Ore Company Limited |
| MBPR..... | MacMillan Bloedel and Powell River Limited |
| NCPC..... | Northern Canada Power Commission |
| PP..... | Pacific Petroleum Company Limited |
| RC..... | Rayonier Canada (BC) Limited |
| SMS..... | S. M. Simpson Limited |
| WFI..... | Western Forest Industries Limited |
| WHL..... | Western Mines Limited |
| WKPL..... | West Kootenay Power and Light Company Limited |
| YCGC..... | Yukon Consolidated Gold Corporation |



DEPARTMENT OF ENERGY, MINES AND RESOURCES
WATER RESOURCES BRANCH
1988

BRITISH COLUMBIA MAIN ELECTRIC TRANSMISSION SYSTEMS AND PRINCIPAL POWER GENERATING DEVELOPMENTS

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Small hydro
Wind

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Low voltage

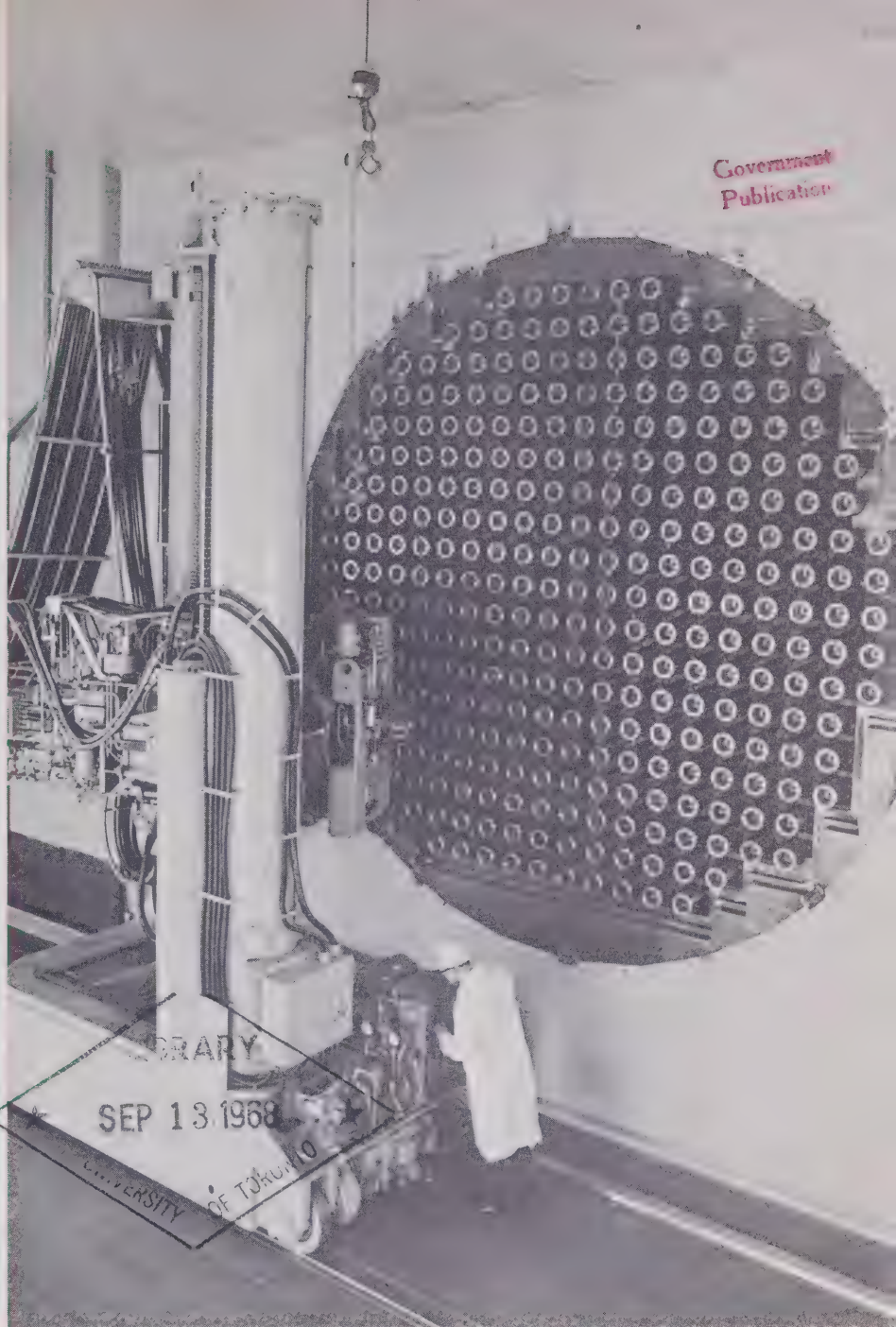
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TRANSMISSION
AND
GENERATING FACILITIES

Ontario

INLAND WATERS BRANCH
DEPARTMENT OF ENERGY, MINES AND RESOURCES

ROGER DUHAMEL, F.R.S.C.
QUEEN'S PRINTER AND CONTROLLER OF STATIONERY
OTTAWA, 1967

Cat. No.: M23-8/1967-3

HYDRO

HYDRO

| No. | Development | River | Owner | Year Installed | | Rated Head ft. | No. of Units | Turbines | | Generators | |
|-----|-------------|-------|-------|----------------|-------------|----------------|--------------|-------------------|--------------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | Unit Capacity hp. | Total Capacity hp. | Unit Capacity kw. | Total Capacity kw. |

Ontario

| | | | | | | | | | | | |
|----|---|---------------|-------|------|------|-----|----|---------|-----------|--------|-----------|
| 1 | Sir Adam Beck-Niagara: Generating Station No. 1 | Niagara | HEPCO | 1922 | 1930 | 305 | 5 | 55,000 | | 36,000 | |
| | | | | | | 294 | 2 | 58,000 | | 43,200 | |
| | | | | | | 294 | 1 | 58,000 | | 44,000 | |
| | | | | | | 294 | 2 | 58,000 | 565,000 | 46,750 | 403,900 |
| | Generating Station No. 2 | | | 1954 | 1958 | 292 | 16 | 105,000 | 1,680,000 | 76,475 | 1,223,600 |
| | Pumping-Generating Station | | | 1957 | 1958 | 85 | 6 | 46,000 | 276,000 | 29,450 | 176,700 |
| 2 | Robert H. Saunders - St. Lawrence | St. Lawrence | HEPCO | 1958 | 1959 | 81 | 16 | 75,000 | 1,200,000 | 57,000 | 912,000 |
| 3 | Des Joachims | Ottawa | HEPCO | 1950 | 1951 | 130 | 8 | 62,000 | 496,000 | 45,000 | 360,000 |
| 4 | Abitibi Canyon | Abitibi | HEPCO | 1933 | 1959 | 237 | 4 | 66,000 | | 41,225 | |
| | | | | | | | 1 | 66,000 | 330,000 | 43,200 | 208,100 |
| 5 | Otto Holden | Ottawa | HEPCO | 1952 | 1953 | 77 | 4 | 35,000 | | 25,650 | |
| | | | | | | | 4 | 33,000 | 272,000 | 25,650 | 205,200 |
| 6 | Otter Rapids | Abitibi | HEPCO | 1961 | 1963 | 107 | 4 | 60,000 | 240,000 | 43,700 | 174,800 |
| 7 | Ontario Power | Niagara | HEPCO | 1905 | 1919 | - | 3 | 11,700 | | 7,500 | |
| | | | | | | | 4 | 11,700 | | 8,770 | |
| | | | | | | | 7 | 13,400 | | 8,775 | |
| | | | | | | | 1 | 20,000 | 195,700 | 13,500 | 132,505 |
| 8 | Harmon | Mattagami | HEPCO | 1965 | 1965 | - | 2 | 94,000 | 188,000 | 64,600 | 129,200 |
| 9 | Pine Portage | Nipigon | HEPCO | 1950 | 1954 | 105 | 2 | 41,000 | | 29,700 | |
| | | | | | | | 2 | 45,000 | 172,000 | 34,650 | 128,700 |
| 10 | Kipling | Mattagami | HEPCO | 1966 | 1966 | 102 | 2 | 94,000 | 188,000 | 62,700 | 125,400 |
| 11 | Chenau | Ottawa | HEPCO | 1950 | 1951 | 40 | 8 | 21,000 | 168,000 | 15,300 | 122,400 |
| 12 | Little Long | Mattagami | HEPCO | 1963 | 1963 | 90 | 2 | 84,000 | 168,000 | 60,800 | 121,600 |
| 13 | DeCew Falls No. 2 | Welland Canal | HEPCO | 1943 | 1947 | 280 | 2 | 75,000 | 150,000 | 57,600 | 115,200 |
| 14 | Rankine | Niagara | CNPC | 1904 | 1924 | 133 | 5 | 10,250 | | 7,500 | |
| | | | | | | | 2 | 12,500 | | 9,375 | |
| | | | | | | | 3 | 10,750 | | 9,375 | |
| | | | | | | | 1 | 12,000 | 120,500 | 10,300 | 94,675 |
| 15 | Toronto Power | Niagara | HEPCO | 1906 | 1915 | - | 7 | 15,000 | | 9,000 | |
| | | | | | | | 4 | 13,000 | 157,000 | 7,200 | 91,800 |
| 16 | Chats Falls | Ottawa | HEPCO | 1931 | 1931 | 53 | 4 | 28,000 | 112,000 | 22,325 | 89,300 |
| 17 | Caribou Falls | English | HEPCO | 1958 | 1958 | 58 | 3 | 34,000 | 102,000 | 25,650 | 76,950 |
| 18 | Cameron Falls | Nipigon | HEPCO | 1920 | 1958 | 72 | 2 | 12,500 | | 9,540 | |
| | | | | | | 72 | 4 | 12,500 | | 8,480 | |
| | | | | | | 73 | 1 | 25,000 | 100,000 | 19,000 | 72,000 |

HYDRO

| No. | Development | River | Owner | Year Installed | | Rated Head ft. | No. of Units | Turbines | | Generators | |
|------------------|---------------------|----------------------------|-------|----------------|-------------|----------------|---------------------------------|---|--------------------|---|--------------------|
| | | | | First Unit | Latest Unit | | | Unit Capacity hp. | Total Capacity hp. | Unit Capacity kw. | Total Capacity kw. |
| ONTARIO (Cont'd) | | | | | | | | | | | |
| 19 | Manitou Falls | English | HEPCO | 1956 | 1958 | 54 | 5 | 18,500 | 92,500 | 14,400 | 72,000 |
| 20 | Alexander | Nipigon | HEPCO | 1930 | 1958 | 60 58 | 3 2 | 18,000 19,000 | 92,000 | 12,750 13,500 | 65,250 |
| 21 | Whitedog Falls | Winnipeg | HEPCO | 1958 | 1958 | 50 | 3 | 27,000 | 81,000 | 21,600 | 64,800 |
| 22 | Stewartville | Madawaska | HEPCO | 1948 | 1948 | 148 | 3 | 28,000 | 84,000 | 20,400 | 61,200 |
| 23 | Smoky Falls | Mattagami | SFPPC | 1928 | 1931 | - | 4 | 18,750 | 75,000 | 13,200 | 52,800 |
| 24 | Silver Falls | Kaministikwia | HEPCO | 1959 | - | 330 | 1 | 60,000 | 60,000 | 45,000 | 45,000 |
| 25 | Geo. W. Rayner | Mississagi | HEPCO | 1950 | 1950 | 210 | 2 | 29,000 | 58,000 | 21,150 | 42,300 |
| 26 | Barrett Chute | Madawaska | HEPCO | 1942 | 1942 | 150 | 2 | 28,000 | 56,000 | 20,400 | 40,800 |
| 27 | Upper Falls | Montreal | GLPC | 1937 | 1957 | 232 | 2 1 | 12,600 31,000 | 56,200 | 9,000 22,500 | 40,500 |
| 28 | Aguasabon | Aguasabon | HEPCO | 1948 | 1948 | 290 | 2 | 27,500 | 55,000 | 20,250 | 40,500 |
| 29 | Red Rock Falls | Mississagi | HEPCO | 1960 | 1961 | 93 | 2 | 26,500 | 53,000 | 20,250 | 40,500 |
| 30 | Island Falls | Abitibi | APPC | 1924 | 1925 | 65 | 4 | 12,000 | 48,000 | 9,600 | 38,400 |
| 31 | DeCew Falls No. 1 | Welland Canal | HEPCO | 1901 | 1913 | - | 1 2 1 1 2 1 1 | 3,000 3,000 6,000 6,000 6,000 6,000 6,000 | 45,000 | 2,500 2,000 4,800 5,000 5,300 5,600 5,900 | 38,400 |
| 32 | Kakabeka Falls | Kaministikwia | HEPCO | 1906 | 1914 | 178 | 3 1 | 7,500 12,500 | 35,000 | 5,400 7,970 | 24,170 |
| 33 | High Falls | Michipicoten | GLPC | 1930 | 1950 | 147 | 2 1 | 11,000 13,200 | 35,200 | 6,750 9,675 | 23,175 |
| 34 | Big Eddy | Spanish | HCL | 1929 | 1929 | 90 | 3 | 9,400 | 28,200 | 7,200 | 21,600 |
| 35 | Sault Ste. Marie | St. Mary | GLPC | 1918 | 1931 | 18.5 | 24 3 1 | 900 2,400 2,200 | 31,000 | 650 1,440 1,600 | 21,520 |
| 36 | Iroquois Falls | Abitibi Lake & Black River | APPC | 1949 | 1949 | 43 | 1 1 1 6 5 | 1,800 1,800 2,200 2,200 2,500 | 31,500 | 1,200 1,280 1,200 1,280 2,025 | 21,485 |
| 37 | Twin Falls | Abitibi | APPC | 1921 | 1925 | 57.5 | 5 | 6,000 | 30,000 | 4,050 | 20,250 |
| 38 | Gartshore Falls | Montreal | GLPC | 1958 | - | 112 | 1 | 30,300 | 30,300 | 20,000 | 20,000 |
| 39 | Hollingsworth Falls | Michipicoten | GLPC | 1959 | - | 108 | 1 | 30,300 | 30,300 | 20,000 | 20,000 |

HYDRO

| No. | Development | River | Owner | Year Installed | | Rated Head ft. | No. of Units | Turbines | | Generators | |
|------------------|-----------------------|------------------------|-------|----------------|-------------|----------------|--------------|-------------------|--------------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | Unit Capacity hp. | Total Capacity hp. | Unit Capacity kw. | Total Capacity kw. |
| ONTARIO (Cont'd) | | | | | | | | | | | |
| 40 | Ear Falls | English | HEPCO | 1930 | 1948 | 36 | 1 | 5,000 | | 4,000 | |
| | | | | | | | 1 | 5,000 | | 3,825 | |
| | | | | | | | 2 | 7,500 | 25,000 | 5,400 | 18,625 |
| 41 | High Falls | Spanish | HCL | 1905 | 1918 | 85 | 4 | 4,000 | | 3,000 | |
| | | | | | | | 1 | 7,500 | 23,500 | 5,550 | 17,550 |
| 42 | Norman | Winnipeg (West Branch) | OMPP | 1925 | 1925 | 20 | 5 | 3,400 | 17,000 | 3,300 | 16,500 |
| 43 | Lower Falls | Montreal | GLPC | 1938 | 1941 | 185 | 2 | 10,900 | 21,800 | 8,100 | 16,200 |
| 44 | Hogg | Montreal | GLPC | 1964 | - | 78 | 1 | 21,750 | 21,750 | 15,000 | 15,000 |
| 45 | Espanola | Spanish | KVPC | 1906 | 1946 | 64 | 4 | 1,675 | | 1,250 | |
| | | | | | | 64 | 1 | 10,000 | | 7,500 | |
| | | | | | | 64 | 1 | 2,350 | 19,050 | 1,750 | 14,250 |
| 46 | Scott Falls | Michipicoten | GLPC | 1952 | 1952 | 70 | 2 | 10,000 | 20,000 | 6,800 | 13,600 |
| 47 | Fort Frances | Rainy | OMPP | 1955 | 1955 | 28 | 8 | 2,000 | 16,000 | 1,600 | 12,800 |
| 48 | Thorold | Welland Canal | STLSA | 1932 | 1932 | 160 | 3 | 5,000 | 15,000 | 4,000 | 12,000 |
| 49 | Wawaitin | Mattagami | HEPCO | 1912 | 1918 | 125 | 2 | 3,450 | | 2,500 | |
| | | | | | | | 2 | 4,000 | 14,900 | 3,375 | 11,750 |
| 50 | Kenora | Winnipeg | OMPP | 1923 | 1924 | 20 | 4 | 1,200 | | 1,000 | |
| | | | | | | | 6 | 1,200 | 12,000 | 1,250 | 11,500 |
| 51 | Heely Falls | Trent | HEPCO | 1913 | 1919 | 73 | 2 | 5,600 | | 3,750 | |
| | | | | | | | 1 | 5,600 | 16,800 | 3,000 | 10,500 |
| 52 | McPhail Falls | Michipicoten | GLPC | 1954 | 1954 | 48 | 2 | 7,500 | 15,000 | 5,000 | 10,000 |
| 53 | Upper Notch | Montreal | HEPCO | 1930 | 1930 | 48 | 2 | 6,500 | 13,000 | 4,800 | 9,600 |
| 54 | Calm Lake | Seine | OMPP | 1928 | 1928 | 82 | 2 | 6,500 | 13,000 | 4,675 | 9,350 |
| 55 | Sturgeon Falls | Sturgeon | APPC | 1902 | 1964 | 40.5 | 1 | 2,500 | | 1,800 | |
| | | | | | | | 1 | 1,000 | | 1,685 | |
| | | | | | | | 1 | 1,500 | | 1,350 | |
| | | | | | | | 1 | 1,500 | | 1,685 | |
| | | | | | | | 1 | 1,500 | | 1,415 | |
| | | | | | | | 1 | 1,000 | 9,000 | 1,415 | 9,350 |
| 56 | Eddy | Ottawa | EBEC | 1909 | 1912 | 38 | 2 | 4,650 | | 3,000 | |
| | | | | | | | 1 | 4,650 | 13,950 | 3,320 | 9,320 |
| 57 | Crystal Falls | Sturgeon | HEPCO | 1921 | 1921 | 33 | 4 | 2,600 | 10,400 | 2,020 | 8,080 |
| 58 | Ranney Falls | Trent | HEPCO | 1922 | 1926 | - | 1 | 1,000 | | 720 | |
| | | | | | | | 2 | 5,000 | 11,000 | 3,600 | 7,920 |
| 59 | Chaudière Falls No. 4 | Ottawa | OHEC | 1931 | 1931 | 38 | 2 | 5,400 | 10,800 | 3,960 | 7,920 |
| 60 | Big Eddy | Muskoka | HEPCO | 1941 | 1941 | 38 | 2 | 5,280 | 10,560 | 3,825 | 7,650 |

HYDRO

| No. | Development | River | Owner | Year Installed | | Rated Head ft. | No. of Units | Turbines | | Generators | |
|------------------|-----------------------|---------------|-------|----------------|-------------|----------------|--------------|-------------------|--------------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | Unit Capacity hp. | Total Capacity hp. | Unit Capacity kw. | Total Capacity kw. |
| ONTARIO (Cont'd) | | | | | | | | | | | |
| 61 | Ragged Rapids | Muskoka | HEPCO | 1938 | 1938 | 38 | 2 | 5,200 | 10,400 | 3,825 | 7,650 |
| 62 | Sturgeon Falls | Seine | OMPP | 1927 | 1927 | 62 | 2 | 5,000 | 10,000 | 3,825 | 7,650 |
| 63 | Matabitchuan | Matabitchuan | HEPCO | 1910 | 1910 | 305 | 4 | 3,300 | 13,200 | 1,690 | 6,760 |
| 64 | Lower Sturgeon | Mattagami | HEPCO | 1923 | 1923 | 42 | 2 | 4,000 | 8,000 | 3,200 | 6,400 |
| 65 | Smooth Rock Falls | Mattagami | APPC | 1916 | 1916 | 45 | 2 | 4,500 | 9,000 | 3,125 | 6,250 |
| 66 | Eugenia | Beaver | HEPCO | 1915 | 1920 | 550 | 2 | 2,250 | | 1,200 | |
| | | | | | | | 1 | 4,000 | 8,500 | 2,400 | 4,800 |
| 67 | Meyerburg (Dam 8) | Trent | HEPCO | 1924 | 1924 | 32 | 3 | 2,200 | 6,600 | 1,600 | 4,800 |
| 68 | Nairn | Spanish | HCL | 1917 | 1917 | 30 | 1 | 2,250 | | 1,500 | |
| | | | | | | | 2 | 2,600 | 7,450 | 1,500 | 4,500 |
| 69 | Chaudière Falls No. 2 | Ottawa | OHEC | 1909 | 1936 | 40 | 3 | 2,300 | 6,900 | 1,462 | 4,386 |
| 70 | Peterborough | Otonabee | PHPC | 1902 | 1950 | 27 | 1 | 2,300 | | 1,200 | |
| | | | | | | | 1 | 2,550 | | 1,500 | |
| | | | | | | | 1 | 2,140 | 6,990 | 1,400 | 4,100 |
| 71 | Coniston | Wanapitei | HEPCO | 1905 | 1915 | 53 | 1 | 1,200 | | 720 | |
| | | | | | | | 1 | 1,600 | | 1,125 | |
| | | | | | | | 1 | 3,500 | 6,300 | 2,250 | 4,095 |
| 72 | Stinson | Wanapitei | HEPCO | 1925 | 1925 | - | 2 | 3,500 | 7,000 | 2,000 | 4,000 |
| 73 | Calabogie | Madawaska | HEPCO | 1917 | 1917 | 30 | 2 | 3,000 | 6,000 | 2,000 | 4,000 |
| 74 | Big Chute | Severn | HEPCO | 1911 | 1919 | 56 | 3 | 1,300 | | 900 | |
| | | | | | | | 1 | 2,300 | 6,200 | 1,280 | 3,980 |
| 75 | South Falls | South Muskoka | HEPCO | 1916 | 1925 | 107 | 1 | 1,000 | | 635 | |
| | | | | | | | 2 | 2,200 | 5,400 | 1,600 | 3,835 |
| 76 | Wabagishik | Vermilion | HCL | 1912 | 1935 | 70 | 1 | 2,700 | | 1,600 | |
| | | | | | | | 1 | 2,700 | 5,400 | 2,140 | 3,740 |
| 77 | Swift Rapids | Severn | OWLP | 1917 | 1917 | 47 | 3 | 2,120 | 6,360 | 1,200 | 3,600 |
| 78 | Minden | Gull | OWLP | 1935 | 1935 | 70 | 2 | 2,600 | 5,200 | 1,800 | 3,600 |
| 79 | Sandy Falls | Mattagami | HEPCO | 1911 | 1916 | 32 | 2 | 1,200 | | 950 | |
| | | | | | | 34 | 1 | 2,500 | 4,900 | 1,595 | 3,495 |
| 80 | Hagues Reach | Trent | HEPCO | 1925 | 1925 | 22.5 | 3 | 1,600 | 4,800 | 1,120 | 3,360 |
| 81 | Indian Chute | Montreal | HEPCO | 1923 | 1924 | 45 | 2 | 2,250 | 4,500 | 1,620 | 3,240 |
| 82 | Sidney | Trent | HEPCO | 1911 | 1911 | 20 | 4 | 1,400 | 5,600 | 795 | 3,180 |

HYDRO

| No. | Development | River | Owner | Year Installed | | Rated Head ft. | No. of Units | Turbines | | Generators | |
|-----|-----------------|---------------|-------|----------------|-------------|----------------|--------------|-------------------|--------------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | Unit Capacity hp. | Total Capacity hp. | Unit Capacity kw. | Total Capacity kw. |
| 83 | Seymour | Trent | HEPCO | 1909 | 1911 | 23 | 4 | 1,100 | | 600 | |
| | | | | | | | 1 | 1,100 | 5,500 | 750 | 3,150 |
| 84 | Mathias | Muskoka | OWLP | 1950 | - | 47 | 1 | 3,770 | 3,770 | 2,812 | 2,812 |
| 85 | Hound Chute | Montreal | HEPCO | 1910 | 1911 | - | 4 | 1,335 | 5,340 | 700 | 2,800 |
| 86 | Kapuskasing | Kapuskasing | SFPPC | 1923 | - | 30 | 1 | 2,500 | 2,500 | 2,750 | 2,750 |
| 87 | Frankford | Trent | HEPCO | 1913 | 1913 | 18 | 4 | 1,200 | 4,800 | 650 | 2,600 |
| 88 | Jones Falls | Rideau Canal | GELW | 1948 | 1950 | 65 | 1 | 250 | | 180 | |
| | | | | | | 58 | 2 | 1,037 | | 800 | |
| | | | | | | 58 | 1 | 1,500 | 3,824 | 800 | 2,580 |
| 89 | Nassau | Otonabee | CGEC | 1902 | 1926 | 16 | 1 | 2,000 | | 1,500 | |
| | | | | | | | 2 | 700 | 3,400 | 480 | 2,460 |
| 90 | McVittie | Wanapitei | HEPCO | 1912 | 1912 | 42 | 2 | 1,800 | 3,600 | 1,125 | 2,250 |
| 91 | High Falls | Mississippi | HEPCO | 1920 | 1920 | 82 | 3 | 1,240 | 3,720 | 700 | 2,100 |
| 92 | Nipissing | South | HEPCO | 1909 | 1909 | - | 1 | 1,250 | | 1,000 | |
| | | | | | | | 1 | 1,250 | 2,500 | 1,050 | 2,050 |
| 93 | Lakefield | Otonabee | HEPCO | 1928 | - | 16 | 1 | 3,100 | 3,100 | 2,000 | 2,000 |
| 94 | Fountain Falls | Montreal | HEPCO | 1914 | 1914 | 30 | 2 | 1,500 | 3,000 | 1,000 | 2,000 |
| 95 | Rideau Falls | Rideau | NRC | 1909 | 1909 | 47 | 2 | 1,500 | 3,000 | 1,000 | 2,000 |
| 96 | Sills Island | Trent | HEPCO | 1926 | 1926 | 14 | 1 | 1,000 | | 960 | |
| | | | | | | | 1 | 1,000 | 2,000 | 1,020 | 1,980 |
| 97 | Crow Bay | Trent Canal | CPUC | 1909 | 1911 | - | 1 | 1,470 | | 1,125 | |
| | | | | | | | 1 | 1,000 | 2,470 | 850 | 1,975 |
| 98 | Auburn | Otonabee | HEPCO | 1911 | 1912 | 18 | 3 | 950 | 2,850 | 625 | 1,875 |
| 99 | Current River | Current | PAPUC | 1902 | 1906 | 80 | 2 | 450 | | 350 | |
| | | | | | | | 1 | 1,200 | 2,100 | 1,150 | 1,850 |
| 100 | Eagle | Eagle | DPC | 1928 | - | 37 | 1 | 2,000 | 2,000 | 1,760 | 1,760 |
| 101 | Trethewey Falls | South Muskoka | HEPCO | 1929 | - | 35 | 1 | 2,300 | 2,300 | 1,600 | 1,600 |

Total capacity of plants under 1,500 kw.

29,826

21,858

Total capacity of turbines connected directly to mechanical equipment

27,375

Total (all plants)

8,590,585

6,194,016

THERMAL

THERMAL

| No. | Station | Location | Owner | Year Installed | | Fuel | Type of Prime Mover | Generators | | |
|-----|----------------------------------|------------------|-------|----------------|-------------|-----------------------|---------------------|------------------|------------------------------------|--------------------|
| | | | | First Unit | Latest Unit | | | No. | Unit Capacity kw. | Total Capacity kw. |
| 1 | Lakeview | Toronto | HEPCO | 1961 | 1966 | Coal, gas | S GT | 5 4 | 300,000 7,500 | 1,530,000 |
| 2 | Richard L. Hearn | Toronto | HEPCO | 1951 | 1966 | Coal, gas | S GT | 4 4 | 100,000 200,000 | 1,230,000 |
| 3 | J. Clark Keith | Windsor | HEPCO | 1951 | 1953 | Coal | S | 4 | 66,000 | 264,000 |
| 4 | Douglas Point | Kincardine | HEPCO | 1966 | 1966 | Uranium dioxide | S | 1 | 200,000 | 200,000 |
| 5 | Thunder Bay | Fort William | HEPCO | 1963 | - | Coal | S | 1 | 100,000 | 100,000 |
| 6 | Detweiler | Kitchener | HEPCO | 1966 | 1966 | Gas | GT | 4 | 16,320 | 65,280 |
| 7 | A. W. Manby | Toronto | HEPCO | 1965 | 1966 | Oil | GT | 4 | 16,320 | 65,280 |
| 8 | Windsor | Windsor | FMCC | 1936 | 1952 | Coal | S | 1 1 2 | 10,000 4,000 25,000 | 64,000 |
| 9 | Sarnia-Scott | Sarnia | HEPCO | 1965 | 1966 | Oil | GT | 2 2 | 15,000 16,320 | 62,640 |
| 10 | Sarnia | Sarnia | PC | 1943 | 1956 | Coal, oil | S | 1 1 1 1 | 10,000 5,000 4,000 13,200 | 32,280 |
| 11 | Fort William | Fort William | GLPAC | 1928 | | Gas, coal, wood-waste | S | 1 1 1 | 4,000 5,000 17,100 | 26,100 |
| 12 | Sault Ste. Marie | Sault Ste. Marie | ASC | 1942 | 1963 | Gas, oil, coal | S | 2 2 | 12,500 500 | 26,000 |
| 13 | Kapuskasing | Kapuskasing | SFPPC | 1928 | 1958 | Coal, gas, wood-waste | S | 2 1 1 | 650 12,500 9,100 | 22,900 |
| 14 | Nuclear Power Demonstration Unit | Rolphton | AECL | 1962 | - | Uranium dioxide | S | 1 | 20,000 | 20,000 |
| 15 | Marathon | Marathon | MCC | 1946 | 1948 | Coal, oil | S | 1 2 | 7,500 4,000 | 15,500 |
| 16 | Lambton | Sarnia | HEPCO | 1966 | 1966 | Gas | GT | 2 | 7,500 | 15,000 |
| 17 | Hamilton | Hamilton | SCC | 1948 | 1959 | Coke-oven gas, oil | S | 1 1 | 4,000 6,000 | 10,000 |
| 18 | Amherstburg | Amherstburg | BRMC | 1938 | 1957 | Coal | S | 1 1 1 | 2,500 2,000 3,750 | 8,250 |
| 19 | Thorold | Thorold | OPC | 1937 | 1937 | Coal, gas | S | 2 | 4,000 | 8,000 |

GT - Gas Turbine, S - Steam

THERMAL

| No. | Station | Location | Owner | Year Installed | | Fuel | Type of Prime Mover | Generators | | |
|--|------------------|------------------|-------|----------------|-------------|-----------------------|---------------------|-------------|-----------------------|--------------------|
| | | | | First Unit | Latest Unit | | | No. | Unit Capacity kw. | Total Capacity kw. |
| ONTARIO (Cont'd) | | | | | | | | | | |
| 20 | Dryden | Dryden | DPC | 1954 | - | Coal, gas | S | 1 | 6,000 | 6,000 |
| 21 | Walkerville | Walkerville | HWS | 1924 | 1955 | Coal | S | 2 1 1 | 1,000 2,500 625 | 5,125 |
| 22 | Sault Ste. Marie | Sault Ste. Marie | APPC | 1927 | - | Coal, gas, wood-waste | S | 1 | 3,500 | 3,500 |
| 23 | Strathcona | Strathcona | SP | 1955 | 1955 | Coal | S | 2 | 1,655 | 3,310 |
| 24 | Chatham | Chatham | CDSC | 1946 | 1946 | Coal | S | 2 | 1,500 | 3,000 |
| 25 | Fort Frances | Fort Frances | OMPP | 1927 | - | Coal | S | 1 | 3,000 | 3,000 |
| 26 | Blind River | Blind River | MFLC | 1927 | 1927 | Wood-waste | S | 1 1 | 750 2,000 | 2,750 |
| 27 | Station No. 6 | Gananoque | GELW | 1959 | 1959 | Gas | IC | 2 | 1,360 | 2,720 |
| 28 | Toronto | Toronto | CDSC | 1959 | - | Coal, gas, oil | S | 1 | 2,500 | 2,500 |
| 29 | Toronto | Toronto | CCCC | 1937 | - | Coal, oil | S | 1 | 2,500 | 2,500 |
| 30 | Ottawa | Ottawa | EBEC | 1923 | - | Coal | S | 1 | 2,500 | 2,500 |
| 31 | Port Arthur | Port Arthur | APPC | 1928 | - | Coal, wood-waste, gas | S | 1 | 2,500 | 2,500 |
| 32 | New Toronto | New Toronto | GTR | 1940 | - | Coal, oil | S | 1 | 2,500 | 2,500 |
| 33 | Pembroke | Pembroke | PELC | 1929 | 1949 | Oil | IC | 1 2 | 933 671 | 2,275 |
| 34 | Orillia | Orillia | OWL P | 1947 | 1948 | Oil | IC | 1 1 | 1,000 1,136 | 2,136 |
| 35 | Peterborough | Peterborough | CGEC | 1930 | 1949 | Coal | S | 1 | 2,000 | 2,000 |
| 36 | Espanola | Espanola | KVPC | 1947 | 1951 | Coal | S | 1 | 2,000 | 2,000 |
| Total capacity of plants 1,500 kw. and over (not listed above) | | | | | | | | | | 94,450 |
| Total capacity of plants under 1,500 kw. | | | | | | | | | | 12,840 |
| Total (all plants) | | | | | | | | | | 3,922,836 |

IC - Internal Combustion, S - Steam

OWNER CODE INDEX

| CODE | OWNER |
|-------------|--|
| AECL. | Atomic Energy of Canada Limited |
| APPC. | Abitibi Power and Paper Company Limited |
| ASC. | Algoma Steel Corporation Limited |
| BRMC. | Brunner Mond Canada Limited |
| CCCC. | Continental Can Company of Canada Limited |
| CDSC. | Canada and Dominion Sugar Company Limited |
| CGEC. | Canadian General Electric Company Limited |
| CNPC. | Canadian Niagara Power Company Limited |
| CPUC. | Campbellford Public Utilities Commission |
| DPC. | Dryden Paper Company Limited |
| EBEC. | E. B. Eddy Company |
| FMCC. | Ford Motor Company of Canada Limited |
| GELW. | Gananoque Electric Light and Water Supply Co. Ltd. |
| GLPAC. | Great Lakes Paper Company |
| GLPC. | Great Lakes Power Corporation Limited |
| GTR. | Goodyear Tire and Rubber Company Limited |
| HCL. | Huronian Company Limited |
| HEPCO. | Hydro-Electric Power Commission of Ontario |
| HWS. | Hiram Walker and Sons Limited |
| KVPC. | Kalamazoo Vegetable Parchment Company Limited |
| MCC. | Marathon Corporation of Canada |
| MFLC. | McFadden Lumber Co. (Domtar) |
| NRC. | National Research Council, Government of Canada |
| OHEC. | Ottawa Hydro-Electric Commission |
| OMPP. | Ontario-Minnesota Pulp and Paper Company Limited |
| OPC. | Ontario Paper Company |
| OWL. | Orillia Water Light and Power Commission |
| PAPUC. | Port Arthur Public Utilities Commission |
| PC. | Polymer Corporation |
| PELC. | Pembroke Electric Light Company Limited |
| PHPC. | Peterborough Hydraulic Power Company |
| SCC. | Steel Company of Canada Limited |
| SFPPC. | Spruce Falls Power and Paper Company |
| SP. | Strathcona Paper Company Limited |
| STLSA. | St. Lawrence Seaway Authority |

SCALE OF MILES
0 10 20 30 40 50 60 70 80

— LEGEND —

EXISTING

UNDER CONSTRUCTION
 (continued addition to existing capacity)
 (new capacity)

GENERATING STATIONS

Hydro-electric
 Thermal-electric
 Sub-station

Stations less than 1500 kw omitted
 Abbreviators refer to company initials

TRANSMISSION LINES

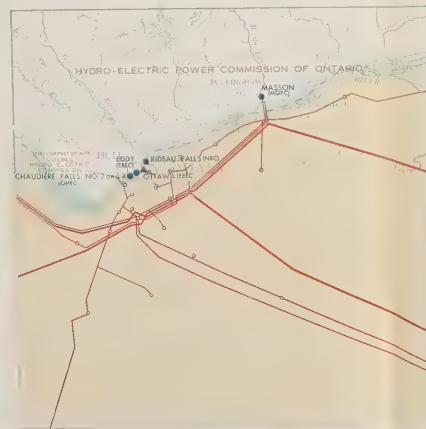
Nominal operating voltages indicated in kilometers
 (50-60/15—First number represents number of circuits where there is more than one circuit; second, operating voltage in the third, the kv or unvoltageed voltage.)

220 kv circuit
 115 kv circuit
 69 kv circuit
 unless otherwise noted
 Lower voltage circuit is generally omitted

Frequency other than 60 cycle
 Underground and submarine cable
 Connection between companies

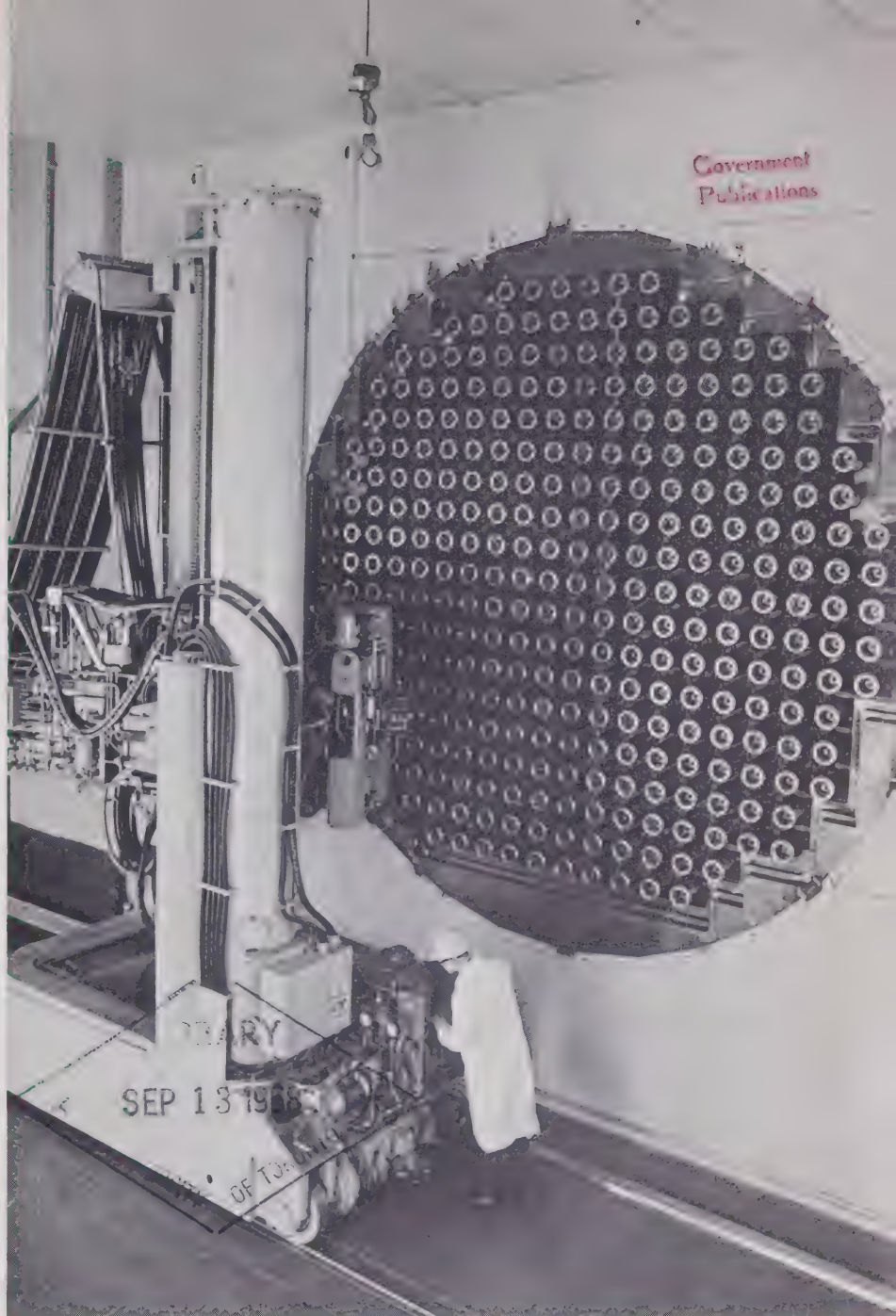
OWNERSHIP

Colors generally designate a major independent companies or associate groups. The same colour in different sections of the map may not indicate common ownership or control



91 MT 51

S22



ELECTRIC POWER IN CANADA • 1966

MAP SUPPLEMENT
PRAIRIE PROVINCES



CAN. MT. 21

522



**TRANSMISSION
AND
GENERATING FACILITIES**

Prairie Provinces

**INLAND WATERS BRANCH
DEPARTMENT OF ENERGY, MINES AND RESOURCES**

ROGER DUHAMEL, F.R.S.C.
QUEEN'S PRINTER AND CONTROLLER OF STATIONERY
OTTAWA, 1967

Cat. No.: M23-8/1967-4

HYDRO

HYDRO

| No. | Development | River | Owner | Year Installed | | Rated Head ft. | No. of Units | Turbines | | Generators | |
|-----|-------------|-------|-------|----------------|-------------|----------------|--------------|-------------------|--------------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | Unit Capacity hp. | Total Capacity hp. | Unit Capacity kw. | Total Capacity kw. |

Alberta

| | | | | | | | | | | | |
|----|----------------------------|-----------------|----|------|------|-----|---|---------|---------|---------|---------|
| 1 | Big Bend | Brazeau | CP | 1965 | 1966 | 386 | 1 | 210,000 | | 144,000 | |
| | | | | | | | 1 | 250,000 | 460,000 | 161,500 | 305,500 |
| 2 | Spray | Spray Diversion | CP | 1951 | 1960 | 875 | 2 | 62,000 | 124,000 | 40,400 | 80,800 |
| 3 | Rundle | Spray Diversion | CP | 1951 | 1960 | 318 | 1 | 23,000 | | 17,000 | |
| | | | | | | 317 | 1 | 40,000 | 63,000 | 29,750 | 46,750 |
| 4 | Ghost | Bow | CP | 1929 | 1954 | 105 | 2 | 18,000 | | 12,750 | |
| | | | | | | 92 | 1 | 30,000 | 66,000 | 21,150 | 46,650 |
| 5 | Cascade | Cascade | CP | 1942 | 1957 | 320 | 2 | 23,000 | 46,000 | 17,000 | 34,000 |
| 6 | Pumping-Generating Station | Brazeau | CP | 1965 | - | - | 1 | 12,850 | | 9,720 | |
| | | | | | | | 1 | 12,850 | 25,700 | 11,250 | 20,970 |
| 7 | Horseshoe | Bow | CP | 1953 | 1955 | 72 | 2 | 4,680 | | 3,375 | |
| | | | | | | | 2 | 7,500 | 24,360 | 5,625 | 18,000 |
| 8 | Kananaskis | Bow | CP | 1913 | 1951 | 68 | 2 | 6,000 | | 3,400 | |
| | | | | | | 70 | 1 | 12,000 | 24,000 | 9,560 | 16,360 |
| 9 | Bearspaw | Bow | CP | 1954 | - | 48 | 1 | 20,750 | 20,750 | 15,300 | 15,300 |
| 10 | Pocaterra | Kananaskis | CP | 1955 | - | 185 | 1 | 18,400 | 18,400 | 13,500 | 13,500 |
| 11 | Barrier | Kananaskis | CP | 1947 | - | 135 | 1 | 13,500 | 13,500 | 9,560 | 9,560 |
| 12 | Interlakes | Kananaskis | CP | 1955 | - | 98 | 1 | 6,900 | 6,900 | 5,040 | 5,040 |
| 13 | Three Sisters | Spray Diversion | CP | 1951 | - | 50 | 1 | 3,600 | 3,600 | 3,400 | 3,400 |

Total capacity of plants under 1,500 kw.

1,940

1,430

Total capacity of turbines connected directly to mechanical equipment

Total (all plants)

898,150

617,260

Saskatchewan

| | | | | | | | | | | | |
|---|---------------|--------------|------|------|------|-----|---|--------|---------|--------|---------|
| 1 | Squaw Rapids | Saskatchewan | SPC | 1963 | 1966 | 107 | 6 | 46,000 | | 33,500 | |
| | | | | | | | 2 | 53,000 | 382,000 | 38,700 | 278,400 |
| 2 | Island Falls | Churchill | CRPC | 1930 | 1959 | 56 | 3 | 16,500 | | 11,880 | |
| | | | | | | | 3 | 19,000 | | 18,000 | |
| | | | | | | | 1 | 19,000 | 125,500 | 17,100 | 106,740 |
| 3 | Waterloo Lake | Charlot | EMR | 1961 | - | 63 | 1 | 10,000 | 10,000 | 7,500 | 7,500 |

HYDRO

| No. | Development | River | Owner | Year Installed | | Rated Head ft. | No. of Units | Turbines | | Generators | |
|-----|-------------|-------|-------|----------------|-------------|----------------|--------------|-------------------|--------------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | Unit Capacity hp. | Total Capacity hp. | Unit Capacity kw. | Total Capacity kw. |

SASKATCHEWAN (Cont'd)

| | | | | | | | | | | | |
|---|-----------------|---------|-----|------|------|----|---|-------|-------|-------|-------|
| 4 | Wellington Lake | Charlot | EMR | 1939 | 1960 | 70 | 2 | 3,300 | 6,600 | 2,400 | 4,800 |
|---|-----------------|---------|-----|------|------|----|---|-------|-------|-------|-------|

Total capacity of plants under 1,500 kw. -

Total capacity of turbines connected directly to mechanical equipment -

Total (all plants)

524,100

397,440

Manitoba

| | | | | | | | | | | | |
|----|--------------------|--------------|-----|------|------|----|---|---------|---------|---------|---------|
| 1 | Grand Rapids | Saskatchewan | MH | 1965 | 1965 | - | 3 | 150,000 | 450,000 | 109,250 | 327,750 |
| 2 | Kelsey | Nelson | MH | 1960 | 1961 | 50 | 5 | 42,000 | 210,000 | 33,750 | 168,750 |
| 3 | Seven Sisters | Winnipeg | MH | 1931 | 1952 | 66 | 6 | 33,330 | 200,000 | 25,000 | 150,000 |
| 4 | Great Falls | Winnipeg | MH | 1923 | 1928 | 58 | 6 | 31,000 | 186,000 | 22,000 | 132,000 |
| 5 | Pine Falls | Winnipeg | MH | 1951 | 1952 | 37 | 6 | 19,000 | 114,000 | 13,950 | 83,700 |
| 6 | Slave Falls | Winnipeg | WH | 1931 | 1948 | 30 | 8 | 12,000 | 96,000 | 9,000 | 72,000 |
| 7 | Pointe du Bois | Winnipeg | WH | 1911 | 1925 | 45 | 5 | 5,200 | | 3,000 | |
| | | | | | | | 3 | 6,800 | | 4,000 | |
| | | | | | | | 3 | 6,900 | | 5,200 | |
| | | | | | | | 3 | 7,300 | | 5,200 | |
| | | | | | | | 2 | 8,000 | 105,000 | 5,200 | 68,600 |
| 8 | McArthur Falls | Winnipeg | MH | 1954 | 1955 | 23 | 8 | 10,000 | 80,000 | 7,650 | 61,200 |
| 9 | Laurie River No. 2 | Laurie | SGM | 1958 | - | 55 | 1 | 7,000 | 7,000 | 5,400 | 5,400 |
| 10 | Laurie River No. 1 | Laurie | SGM | 1950 | 1952 | 55 | 2 | 3,500 | 7,000 | 2,475 | 4,950 |

Total capacity of plants under 1,500 kw. -

Total capacity of turbines connected directly to mechanical equipment -

Total (all plants)

1,455,000

1,074,350

THERMAL

THERMAL

| No. | Station | Location | Owner | Year Installed | | Fuel | Type of Prime Mover | Generators | | |
|-----|---------|----------|-------|----------------|-------------|------|---------------------|------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | No. | Unit Capacity kw. | Total Capacity kw. |

Alberta

| | | | | | | | | | | |
|----|---------------|---------------|------|------|------|----------------------|----|---|---------|---------|
| 1 | Edmonton | Edmonton | CE | 1939 | 1966 | Gas, oil | S | 2 | 15,000 | 405,000 |
| | | | | | | | | 3 | 30,000 | |
| | | | | | | | | 2 | 75,000 | |
| | | | | | | | GT | 2 | 30,000 | |
| | | | | | | | S | 1 | 75,000 | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| 2 | Wabamun | Wabamun | CP | 1956 | 1962 | Gas, coal | S | 2 | 66,000 | 282,000 |
| | | | | | | | | 1 | 150,000 | |
| 3 | Battle River | Forestburg | CU | 1956 | 1964 | Coal, oil | S | 2 | 33,000 | 66,000 |
| 4 | Vermilion | Vermilion | CU | 1948 | 1961 | Gas | S | 4 | 2,250 | 39,000 |
| | | | | | | | GT | 1 | 30,000 | |
| 5 | Medicine Hat | Medicine Hat | CMH | 1929 | 1953 | Gas | S | 1 | 3,000 | 38,000 |
| | | | | | | | | 1 | 5,000 | |
| | | | | | | | | 1 | 30,000 | |
| 6 | Lethbridge | Lethbridge | CL | 1931 | 1961 | Gas | S | 1 | 3,375 | 33,375 |
| | | | | | | | | 2 | 5,000 | |
| | | | | | | | GT | 2 | 10,000 | |
| 7 | Fort McMurray | Fort McMurray | GCOS | 1966 | 1966 | | S | 1 | 30,500 | 30,500 |
| 8 | Hinton | Hinton | NWPP | 1956 | 1957 | Gas, wood-waste, oil | S | 1 | 20,000 | 22,100 |
| | | | | | | | IC | 1 | 1,100 | |
| | | | | | | | | 1 | 1,000 | |
| 9 | Clover Bar | Edmonton | C | 1953 | 1966 | Gas | S | 3 | 6,000 | 22,000 |
| | | | | | | | | 1 | 4,000 | |
| 10 | Simonette | Simonette | CU | 1966 | | Flare gas | GT | 1 | 20,000 | 20,000 |
| 11 | Sturgeon | Valleyview | CU | 1958 | 1961 | Flare gas | GT | 1 | 10,000 | 18,500 |
| | | | | | | | | 1 | 8,500 | |
| 12 | Drumheller | Drumheller | CU | 1928 | 1952 | Coal | S | 2 | 7,500 | 17,500 |
| | | | | | | | | 1 | 2,500 | |
| 13 | Two Hills | Duvernay | WC | 1953 | 1958 | Gas | S | 3 | 300 | 13,537 |
| | | | | | | | | 1 | 1,200 | |
| | | | | | | | IC | 6 | 500 | |
| | | | | | | | GT | 1 | 8,437 | |
| 14 | Sentinel | Coleman | EKPC | 1927 | 1929 | Coal | S | 2 | 5,000 | 10,000 |
| 15 | Edmonton | University | DPW | 1960 | 1963 | Gas | GT | 1 | 2,200 | 9,200 |
| | | | | | | | S | 1 | 5,000 | |
| | | | | | | | S | 1 | 2,000 | |

GT - Gas Turbine, IC - Internal Combustion, S - Steam

THERMAL

| No. | Station | Location | Owner | Year Installed | | Fuel | Type of Prime Mover | Generators | | |
|-----|-----------------------|-------------------|-------|----------------|-------------|----------|---------------------|-----------------------|-----------------------------------|--------------------|
| | | | | First Unit | Latest Unit | | | No. | Unit Capacity kw. | Total Capacity kw. |
| 16 | Fairview | Fairview | NU | 1954 | 1960 | Gas | IC | 3 | 3,000 | 9,000 |
| 17 | Fort Saskatchewan | Fort Saskatchewan | SGM | 1954 | 1959 | Gas | S | 2 | 2,500 | 5,000 |
| 18 | Whitecourt | Whitecourt | PAPC | 1958 | 1964 | Gas | IC | 2 5 | 300 800 | 4,600 |
| 19 | Fort McMurray | Fort McMurray | CU | 1954 | 1966 | Oil | IC | 2 2 1 1 2 | 500 350 225 150 1,200 | 4,475 |
| 20 | Rimbey | Rimbey | BA | 1960 | 1963 | Gas | S | 4 | 1,000 | 4,000 |
| 21 | Grande Prairie | Grande Prairie | CU | 1948 | 1955 | Gas, oil | IC | 1 1 1 | 800 600 2,500 | 3,900 |
| 22 | Taber | Taber | CSF | 1950 | 1960 | Gas, oil | S | 1 1 | 2,000 1,675 | 3,675 |
| 23 | Glenmore Filter Plant | Calgary | CC | 1965 | 1965 | | S | 2 | 1,800 | 3,600 |
| 24 | Jasper | Jasper | NU | 1941 | 1964 | Oil | IC | 1 1 1 1 1 | 1,200 474 96 500 300 | 2,570 |
| 25 | Foot Hills Hospital | Calgary | CC | 1965 | 1965 | | S Diesel | 2 1 | 1,000 450 | 2,450 |
| 26 | High Level | High Level | NU | 1959 | 1966 | Oil | IC | 2 3 1 | 500 350 300 | 2,350 |
| 27 | Edmonton | Legislative Bldg. | DPW | 1953 | 1965 | Gas | S | 2 1 | 800 500 | 2,100 |
| 28 | Picture Butte | Picture Butte | CSF | | 1964 | Gas | S | 1 1 | 1,250 750 | 2,000 |
| 29 | Athabasca | Athabasca | CP | 1953 | 1961 | Gas | IC | 1 2 | 1,200 300 | 1,800 |
| 30 | Edmonton | Alberta Hospital | DPW | 1929 | 1954 | Gas | S | 1 1 1 1 | 600 500 300 200 | 1,600 |

IC - Internal Combustion, S - Steam

THERMAL

| No. | Station | Location | Owner | Year Installed | | Fuel | Type of Prime Mover | Generators | | |
|-----|---------|----------|-------|----------------|-------------|------|---------------------|------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | No. | Unit Capacity kw. | Total Capacity kw. |

ALBERTA (Cont'd)

| | | | | | | | | | | |
|----|---------|---------|----|------|------|--|----|--------|------------|-------|
| 31 | Worsley | Worsley | NU | 1963 | 1963 | | IC | 1 1 | 864 650 | 1,514 |
|----|---------|---------|----|------|------|--|----|--------|------------|-------|

Total capacity of plants 1,500 kw. and over (not listed above) 4,000

Total capacity of plants under 1,500 kw. 10,568

Total (all plants) 1,095,914

Saskatchewan

| | | | | | | | | | | |
|----|-----------------|---------------|-----|------|------|----------------|---------------------|-----------------------|---|---------|
| 1 | Boundary Dam | Estevan | SPC | 1959 | 1960 | Coal | S | 2 | 66,000 | 132,000 |
| 2 | Queen Elizabeth | Saskatoon | SPC | 1958 | 1959 | Gas, oil, coal | S | 2 | 66,000 | 132,000 |
| 3 | A.L. Cole | Saskatoon | SPC | 1929 | 1957 | Coal, oil, gas | S | 1 1 2 1 | 10,000 15,000 25,000 30,000 | 105,000 |
| 4 | Regina | Regina | SPC | 1925 | 1960 | Oil, gas | S GT | 1 1 1 1 1 | 15,000 5,000 20,000 30,000 23,500 | 93,500 |
| 5 | Estevan | Estevan | SPC | 1929 | 1957 | Coal, gas | S | 1 1 1 1 | 5,000 15,000 20,000 30,000 | 70,000 |
| 6 | Kindersley | Kindersley | SPC | 1955 | 1958 | Gas | IC GT | 3 2 | 3,000 10,000 | 29,000 |
| 7 | Moose Jaw | Moose Jaw | SPC | 1930 | 1952 | Oil, gas | S | 1 1 | 10,000 15,000 | 25,000 |
| 8 | Success | Success | SPC | 1966 | 1966 | Gas | GT | 1 | 15,400 | 15,400 |
| 9 | Kalium | Kalium | KC | 1964 | 1964 | Gas | S | 2 | 7,500 | 15,000 |
| 10 | Swift Current | Swift Current | SPC | 1954 | 1957 | Oil | IC | 2 4 | 1,275 3,000 | 14,550 |
| 11 | Eldorado | Eldorado | EMR | 1952 | 1956 | Oil | IC | 4 | 2,250 | 9,000 |

GT - Gas Turbine, IC - Internal Combustion, S - Steam

THERMAL

| No. | Station | Location | Owner | Year Installed | | Fuel | Type of Prime Mover | Generators | | |
|-----|---------|----------|-------|----------------|-------------|------|---------------------|------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | No. | Unit Capacity kw. | Total Capacity kw. |

SASKATCHEWAN (Cont'd)

| | | | | | | | | | | |
|----|-----------|-----------------------------|------|------|------|--------------|---|--------|----------------|-------|
| 12 | Flin Flon | Flin Flon (Saskatchewan) | HBMS | 1929 | 1951 | Coal, oil | S | 1 1 | 1,000 6,000 | 7,000 |
|----|-----------|-----------------------------|------|------|------|--------------|---|--------|----------------|-------|

Total capacity of plants 1,500 kw. and over (not listed above) 10,000

Total capacity of plants under 1,500 kw. 4,143

Total (all plants) 661,593

Manitoba

| | | | | | | | | | | |
|---|------------|-----------|------|------|------|-------------------------------|---------|------------------|------------------------------|---------|
| 1 | Brandon | Brandon | MH | 1957 | 1958 | Coal, gas, oil | S | 4 | 33,000 | 132,000 |
| 2 | Selkirk | Selkirk | MH | 1960 | 1960 | Coal, oil | S | 2 | 66,000 | 132,000 |
| 3 | Amy Street | Winnipeg | WH | 1924 | 1954 | Coal | S | 2 1 1 | 5,000 15,000 25,000 | 50,000 |
| 4 | The Pas | The Pas | MH | 1948 | 1962 | Oil | IC | 1 4 1 1 | 1,100 1,000 750 400 | 6,250 |
| 5 | Churchill | Churchill | NHB | 1931 | 1955 | Grain refuse, oil, coal | S IC | 2 1 1 1 | 1,500 600 200 250 | 4,050 |
| 6 | Fort Garry | Winnipeg | MSC | 1940 | 1953 | Oil | S | 1 1 | 1,500 2,500 | 4,000 |
| 7 | Thompson | Thompson | INCO | | 1958 | Oil | IC | 2 | 1,500 | 3,000 |

Total capacity of plants 1,500 kw. and over (not listed above) 4,000

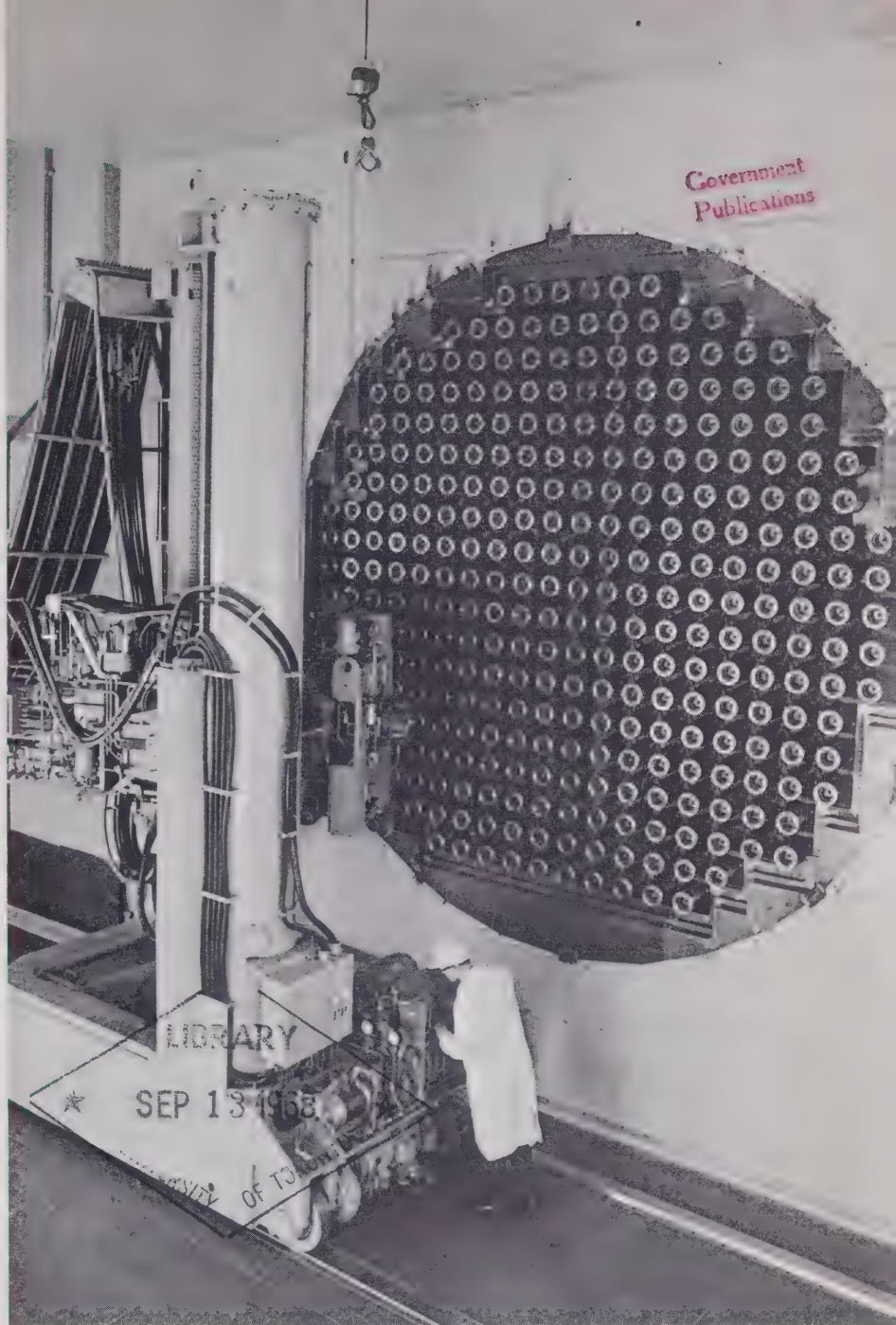
Total capacity of plants under 1,500 kw. 3,016

Total (all plants) 338,316

IC - Internal Combustion, S - Steam

OWNER CODE INDEX

| CODE | OWNER |
|------------|---|
| BA. | British American Oil Company |
| C. | Chemsell (1963) Limited |
| CE. | City of Edmonton |
| CL. | City of Lethbridge |
| CMH. | City of Medicine Hat |
| COC. | City of Calgary |
| CP. | Calgary Power Ltd. |
| CRPC. | Churchill River Power Company |
| CSF. | Canadian Sugar Factories Limited |
| CU. | Canadian Utilities Limited |
| DPW. | Department of Public Works, Government of Alberta |
| EKPC. | East Kootenay Power Company Limited |
| EMR. | Eldorado Mining and Refining Limited |
| GCOS. | Great Canadian Oil Sands Limited |
| HBMS. | Hudson Bay Mining and Smelting Company Limited |
| INCO. | International Nickel Company of Canada Limited |
| KC. | Kalium Chemicals Limited |
| MH. | Manitoba Hydro |
| MSC. | Manitoba Sugar Company Limited |
| NHB. | National Harbours Board, Government of Canada |
| NU. | Northland Utilities Limited |
| NWPP. | North Western Pulp and Power Limited |
| PAPC. | Pan American Petroleum Corporation |
| SGM. | Sherritt-Gordon Mines Limited |
| SPC. | Saskatchewan Power Corporation |
| WC. | Western Chemicals Limited |
| WH. | Winnipeg Hydro |



ELECTRIC POWER IN CANADA • 1966

MAP SUPPLEMENT
QUEBEC





TRANSMISSION
AND
GENERATING FACILITIES

Quebec

INLAND WATERS BRANCH
DEPARTMENT OF ENERGY, MINES AND RESOURCES

ROGER DUHAMEL, F.R.S.C.
QUEEN'S PRINTER AND CONTROLLER OF STATIONERY
OTTAWA, 1967

Cat. No.: M23-8/1967-2

CHI MT 5

522

HYDRO

HYDRO

| No. | Development | River | Owner | Year Installed | | Rated Head ft. | No. of Units | Turbines | | Generators | |
|-----|-------------|-------|-------|----------------|-------------|----------------|--------------|-------------------|--------------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | Unit Capacity hp. | Total Capacity hp. | Unit Capacity kw. | Total Capacity kw. |

Quebec

| | | | | | | | | | | | |
|----|------------------------|--------------|-------|------|------|-----|----|---------|-----------|---------|-----------|
| 1 | Beauharnois: Section 1 | St. Lawrence | QHEC | 1932 | 1948 | 80 | 8 | 53,000 | | 37,300 | |
| | | | | | | | 6 | 55,000 | | 40,000 | |
| | Section 2 | | | 1950 | 1953 | 80 | 9 | 55,000 | | 40,000 | |
| | | | | | | | 3 | 56,000 | | 41,120 | |
| | Section 3 | | | 1959 | 1961 | 80 | 10 | 73,700 | 2,154,000 | 55,250 | 1,574,260 |
| 2 | Bersimis I | Bersimis | QHEC | 1956 | 1958 | 785 | 8 | 150,000 | 1,200,000 | 114,000 | 912,000 |
| 3 | Manic 2 | Manicouagan | QHEC | 1965 | 1966 | 230 | 7 | 170,000 | 1,190,000 | 126,900 | 888,300 |
| 4 | Chute des Passes | Peribonka | ALCAN | 1959 | 1960 | 540 | 5 | 200,000 | 1,000,000 | 148,500 | 742,500 |
| 5 | Shipshaw | Saguenay | ALCAN | 1942 | 1943 | 208 | 2 | 95,000 | | 58,500 | |
| | | | | | | | 6 | 103,000 | | 60,000 | |
| | | | | | | | 2 | 101,000 | | 60,000 | |
| | | | | | | | 2 | 95,000 | 1,200,000 | 60,000 | 717,000 |
| 6 | Bersimis II | Bersimis | QHEC | 1959 | 1960 | 380 | 5 | 171,000 | 855,000 | 131,000 | 655,000 |
| 7 | Carillon | Ottawa | QHEC | 1962 | 1964 | 61 | 14 | 60,000 | 840,000 | 46,750 | 654,500 |
| 8 | Isle Maligne | Saguenay | SAPC | 1925 | 1937 | 110 | 12 | 45,000 | 540,000 | 28,000 | 336,000 |
| 9 | McCormick | Manicouagan | MP | 1951 | 1965 | 124 | 2 | 56,200 | | 35,625 | |
| | | | | | | | 3 | 60,000 | | 40,000 | |
| | | | | | | | 2 | 80,000 | 452,400 | 56,250 | 303,750 |
| 10 | Trenche | St. Maurice | QHEC | 1950 | 1955 | 160 | 6 | 65,000 | 390,000 | 47,700 | 286,200 |
| 11 | Beaumont | St. Maurice | QHEC | 1958 | 1959 | 124 | 6 | 55,000 | 330,000 | 40,500 | 243,000 |
| 12 | La Tuque | St. Maurice | QHEC | 1940 | 1955 | 114 | 5 | 44,500 | | 36,000 | |
| | | | | | | | 1 | 49,000 | 271,500 | 36,000 | 216,000 |
| 13 | Paugan | Gatineau | QHEC | 1928 | 1956 | 133 | 1 | 47,000 | | 32,400 | |
| | | | | | | 132 | 7 | 34,000 | 285,000 | 24,225 | 201,975 |
| 14 | Chute-à-la-Savanne | Peribonka | ALCAN | 1953 | 1953 | 110 | 5 | 57,000 | 285,000 | 37,450 | 187,250 |
| 15 | Chute-du-Diable | Peribonka | ALCAN | 1952 | 1952 | 110 | 5 | 55,000 | 275,000 | 37,450 | 187,250 |
| 16 | Rapide Blanc | St. Maurice | QHEC | 1934 | 1955 | 108 | 1 | 44,500 | | 30,600 | |
| | | | | | | | 5 | 40,000 | 244,500 | 30,600 | 183,600 |
| 17 | Chute à Caron | Saguenay | ALCAN | 1931 | 1934 | 160 | 4 | 75,000 | 300,000 | 45,000 | 180,000 |
| 18 | Shawinigan No. 2 | St. Maurice | QHEC | 1911 | 1929 | 146 | 3 | 43,000 | | 30,000 | |
| | | | | | | 145 | 3 | 18,500 | | 15,000 | |
| | | | | | | 145 | 2 | 18,500 | 221,500 | 14,000 | 163,000 |
| 19 | Cedars | St. Lawrence | QHEC | 1914 | 1924 | 30 | 12 | 10,800 | | 9,000 | |
| | | | | | | | 6 | 11,300 | 197,400 | 9,000 | 162,000 |

HYDRO

| No. | Development | River | Owner | Year Installed | | Rated Head ft. | No. of Units | Turbines | | Generators | |
|-----------------|------------------|-----------------------|-------|----------------|-------------|----------------|--------------|-------------------|--------------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | Unit Capacity hp. | Total Capacity hp. | Unit Capacity kw. | Total Capacity kw. |
| | | | | | | | | | | | |
| QUEBEC (Cont'd) | | | | | | | | | | | |
| 20 | Shawinigan No. 3 | St. Maurice | QHEC | 1948 | 1949 | 145 | 3 | 65,000 | 195,000 | 50,000 | 150,000 |
| 21 | Grand'Mère | St. Maurice | QHEC | 1915 | 1930 | 80 | 7 | 22,000 | | 15,725 | |
| | | | | | | | 1 | 22,000 | | 18,000 | |
| | | | | | | | 1 | 24,500 | 200,500 | 20,000 | 148,075 |
| 22 | Chelsea | Gatineau | QHEC | 1927 | 1939 | 93 | 5 | 34,000 | 170,000 | 28,800 | 144,000 |
| 23 | La Gabelle | St. Maurice | QHEC | 1924 | 1931 | 63 | 3 | 36,000 | | 24,750 | |
| | | | | | | 63 | 1 | 32,000 | | 24,750 | |
| | | | | | | 60 | 1 | 32,000 | 172,000 | 24,750 | 123,750 |
| 24 | Manic 1 | Manicouagan | QHEC | 1966 | 1966 | | 2 | 80,000 | 160,000 | 61,470 | 122,940 |
| 25 | Farmers Rapids | Gatineau | QHEC | 1927 | 1947 | 66 | 3 | 24,000 | | 20,000 | |
| | | | | | | | 2 | 24,000 | 120,000 | 19,125 | 98,250 |
| 26 | Masson | Lièvre | MQPC | 1933 | 1933 | 185 | 4 | 34,000 | 136,000 | 23,800 | 95,200 |
| 27 | Quinze Rapids | Ottawa (Upper) | QHEC | 1923 | 1955 | 90 | 2 | 12,500 | | 8,000 | |
| | | | | | | | 2 | 12,500 | | 10,800 | |
| | | | | | | | 2 | 34,500 | 119,000 | 26,000 | 89,600 |
| 28 | High Falls | Lièvre | MQPC | 1930 | 1936 | 180 | 1 | 32,500 | | 21,250 | |
| | | | | | | | 3 | 30,000 | 122,500 | 21,250 | 85,000 |
| 29 | Chats Falls | Ottawa | OVPC | 1932 | 1932 | 53 | 4 | 29,940 | 119,760 | 20,000 | 80,000 |
| 30 | Rapid VII | Ottawa (Upper) | QHEC | 1941 | 1949 | 68 | 4 | 16,000 | 64,000 | 14,250 | 57,000 |
| 31 | Bryson | Ottawa | QHEC | 1925 | 1949 | 60 | 2 | 25,700 | | 18,000 | |
| | | | | | | | 1 | 27,000 | 78,400 | 20,000 | 56,000 |
| 32 | Murdock Willson | Shipshaw | PBC | 1957 | - | 263 | 1 | 82,000 | 82,000 | 51,000 | 51,000 |
| 33 | Jim Gray | Shipshaw | PBC | 1953 | 1953 | 338 | 2 | 35,000 | 70,000 | 25,500 | 51,000 |
| 34 | Outardes Falls | Outardes | QNSPC | 1937 | 1937 | 208 | 2 | 35,300 | 70,600 | 25,000 | 50,000 |
| 35 | Fifty Foot Falls | Hart Jaune | HJP | 1960 | 1960 | 123 | 3 | 22,000 | 66,000 | 16,150 | 48,450 |
| 36 | Rapid II | Ottawa (Upper) | QHEC | 1954 | 1964 | 67 | 4 | 16,000 | 64,000 | 12,000 | 48,000 |
| 37 | Montreal Island | Prairies | QHEC | 1929 | 1930 | 25 | 6 | 10,000 | 60,000 | 7,500 | 45,000 |
| 38 | Dufferin Falls | Lièvre | JMC | 1958 | 1959 | 62 | 2 | 25,000 | 50,000 | 19,125 | 38,250 |
| 39 | Rapide-des-Îles | Ottawa | QHEC | 1966 | 1966 | | 1 | 50,000 | 50,000 | 37,250 | 37,250 |
| 40 | Chicoutimi | Chicoutimi | SMPC | 1957 | - | 273 | 1 | 42,000 | 42,000 | 32,000 | 32,000 |
| 41 | Hemming Falls | St. François | QHEC | 1925 | 1925 | 50 | 6 | 5,600 | 33,600 | 4,800 | 28,800 |
| 42 | Seven Falls | St. Anne (de Beaupré) | QHEC | 1915 | 1915 | 410 | 4 | 6,000 | 24,000 | 4,680 | 18,720 |
| 43 | Ste. Marguerite | Marguerite | GPC | 1954 | 1954 | 100 | 2 | 12,000 | 24,000 | 8,800 | 17,600 |
| 44 | Chaudière No. 2 | Ottawa | QHEC | 1920 | 1923 | 32 | 3 | 7,500 | 22,500 | 5,760 | 17,280 |

HYDRO

| No. | Development | River | Owner | Year Installed | | Rated Head ft. | No. of Units | Turbines | | Generators | |
|-----|-------------------|------------------------|-------|----------------|-------------|----------------|------------------|----------------------------------|--------------------|----------------------------------|--------------------|
| | | | | First Unit | Latest Unit | | | Unit Capacity hp. | Total Capacity hp. | Unit Capacity kw. | Total Capacity kw. |
| 45 | Kipawa | Gordon Creek | QHEC | 1920 | 1926 | 200 | 2 | 3,600 8,500 | 24,200 | 2,800 5,760 | 17,120 |
| 46 | St. Narcisse | Batiscan | QHEC | 1926 | 1926 | 147 | 2 | 11,100 | 22,200 | 7,500 | 15,000 |
| 47 | Drummondville | St. François | QHEC | 1910 | 1925 | 30 | 2 | 3,200 6,000 | 18,400 | 2,500 4,800 | 14,600 |
| 48 | Chutes aux Galets | Shipshaw | PBC | 1921 | 1921 | 101 | 2 | 8,820 | 17,640 | 6,800 | 13,600 |
| 49 | Chaudière Falls | Ottawa | EBEC | 1913 | 1955 | 38 | 3 | 5,500 | 16,500 | 3,750 | 11,250 |
| 50 | Chicoutimi | Chicoutimi | PBC | 1923 | - | 72 | 1 | 11,000 | 11,000 | 9,900 | 9,900 |
| 51 | Waltham | Black | PELC | 1917 | 1951 | 129 | 1 1 1 2 | 1,800 2,250 2,500 3,000 | 12,550 | 1,250 1,530 1,800 2,250 | 9,080 |
| 52 | Buckingham | Lièvre | ERC | 1914 | 1939 | 30 | 1 1 3 | 2,000 2,500 2,000 | 10,500 | 1,375 1,836 1,440 | 7,531 |
| 53 | Price | Mitis | QHEC | 1922 | 1929 | 128 120 | 1 1 | 3,700 5,900 | 9,600 | 2,400 4,000 | 6,400 |
| 54 | Adam Cunningham | Shipshaw | PBC | 1953 | - | 56 | 1 | 9,500 | 9,500 | 6,375 | 6,375 |
| 55 | Arnaud Bridge | Chicoutimi | QHEC | 1923 | 1923 | 56 | 1 2 | 2,500 2,500 | 7,500 | 1,700 1,875 | 5,450 |
| 56 | Bell Falls | Rouge | QHEC | 1915 | 1920 | 54 | 3 | 2,400 | 7,200 | 1,600 | 4,800 |
| 57 | Kenogami | Au Sable | PBC | 1912 | 1912 | 264 | 2 | 3,350 | 6,700 | 2,345 | 4,690 |
| 58 | Grand Mitis No. 2 | Mitis | QHEC | 1947 | - | 75 | 1 | 6,000 | 6,000 | 4,250 | 4,250 |
| 59 | Jonquière | Au Sable | MJ | 1907 | 1924 | 42 47 | 1 1 | 1,800 4,030 | 5,830 | 1,280 2,812 | 4,092 |
| 60 | Westbury | St. François | CS | 1928 | 1928 | 28 | 2 | 2,900 | 5,800 | 2,000 | 4,000 |
| 61 | Chaudière | Chaudière | QHEC | 1900 | 1903 | 114 | 2 1 | 1,400 2,000 | 4,800 | 1,000 1,500 | 3,500 |
| 62 | Lachute | North | AL | 1929 | 1929 | 36 | 3 | 1,500 | 4,500 | 1,080 | 3,240 |
| 63 | Windsor Mills | St. François | DPP | 1936 | 1939 | 19 | 2 1 1 | 1,500 800 430 | 4,230 | 1,120 600 320 | 3,160 |
| 64 | Weedon | St. François | CS | 1920 | 1926 | 30 29 | 2 1 | 1,700 1,700 | 5,100 | 1,040 1,040 | 3,120 |
| 65 | St. Alban | Ste. Anne de la Pérade | QHEC | 1927 | - | 64 | 1 | 4,000 | 4,000 | 3,000 | 3,000 |
| 66 | St. Raphael | Sud | QHEC | 1921 | 1921 | 232 | 3 | 1,500 | 4,500 | 850 | 2,550 |

QUEBEC (Cont'd)

HYDRO

| No. | Development | River | Owner | Year Installed | | Rated Head ft. | No. of Units | Turbines | | Generators | |
|---|---------------------|-------------------------|-------|----------------|-------------|----------------|--------------|-------------------|--------------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | Unit Capacity hp. | Total Capacity hp. | Unit Capacity kw. | Total Capacity kw. |
| QUEBEC (Cont'd) | | | | | | | | | | | |
| 67 | Domtar | Jacques Cartier | DT | 1960 | 1962 | 60 | 2 | 1,200 | 2,400 | 1,200 | 2,400 |
| 68 | MacDougall Falls | Jacques Cartier | DP | 1925 | 1927 | 50 | 2 | 1,900 | 3,800 | 1,200 | 2,400 |
| 69 | Jonquière Mill | Au Sable | PBC | 1916 | 1916 | 67 | 1 | 1,800 | | 1,200 | |
| | | | | | | | 1 | 1,625 | 3,425 | 1,200 | 2,400 |
| 70 | Winneway | Winneway (Upper Ottawa) | LMC | 1938 | 1943 | 57 | 2 | 1,400 | 2,800 | 1,169 | 2,338 |
| 71 | Ogilvie Flour Mills | Lachine Canal | OFM | 1940 | 1948 | 23 | 2 | 1,600 | | 850 | |
| | | | | | | 15 | 2 | 400 | 4,000 | 300 | 2,300 |
| 72 | Mont Laurier | Lièvre | EML | 1937 | 1951 | 22 | 1 | 500 | | 500 | |
| | | | | | | | 2 | 1,325 | 3,150 | 900 | 2,300 |
| 73 | Sherbrooke | Magog | QHEC | 1910 | 1910 | 57 | 3 | 1,333 | 4,000 | 752 | 2,256 |
| 74 | Garneau Falls | Chicoutimi | QHEC | 1928 | - | 30 | 1 | 3,450 | 3,450 | 2,240 | 2,240 |
| 75 | Magog | Magog | DTC | 1920 | 1920 | 25 | 2 | 1,500 | 3,000 | 1,000 | 2,000 |
| 76 | Corbeau | Gatineau | QHEC | 1926 | 1926 | 12 | 2 | 1,250 | 2,500 | 1,000 | 2,000 |
| 77 | Bird's Mill Falls | Jacques Cartier | DP | 1937 | - | 27 | 1 | 2,250 | 2,250 | 1,920 | 1,920 |
| 78 | Rock Forest | Magog | CS | 1911 | 1911 | 30 | 2 | 1,500 | 3,000 | 940 | 1,880 |
| 79 | Rivière-du-Loup | Du Loup | CRL | 1929 | 1942 | 100 | 1 | 960 | | 640 | |
| | | | | | | | 1 | 1,800 | 2,760 | 1,200 | 1,840 |
| 80 | Magpie | Magpie | QHEC | 1961 | 1961 | 27 | 2 | 1,500 | 3,000 | 900 | 1,800 |
| 81 | Rawdon | Ouareau | QHEC | 1927 | - | 50 | 1 | 2,300 | 2,300 | 1,720 | 1,720 |
| 82 | Frontenac | Magog | CS | 1917 | 1917 | 38 | 2 | 1,450 | 2,900 | 800 | 1,600 |
| 83 | Burroughs Falls | Nigger | QHEC | 1929 | - | 175 | 1 | 2,000 | 2,000 | 1,600 | 1,600 |
| Total capacity of plants under 1,500 kw. | | | | | | | | | 39,393 | 27,238 | |
| Total capacity of turbines connected directly to mechanical equipment | | | | | | | | | 59,365 | | |
| Total (all plants) | | | | | | | | | 14,855,538 | 10,745,690 | |

THERMAL

THERMAL

| No. | Station | Location | Owner | Year Installed | | Fuel | Type of Prime Mover | Generators | | |
|-----|---------|----------|-------|----------------|-------------|------|---------------------|------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | No. | Unit Capacity kw. | Total Capacity kw. |

Quebec

| | | | | | | | | | | |
|----|------------------------------|----------------------|------|------|------|-----------------------|---------|------------------|----------------------------------|---------|
| 1 | Tracy | Tracy | QHEC | 1964 | - | Oil | S | 2 | 150,000 | 300,000 |
| 2 | Les Boules | Les Boules | QHEC | 1955 | 1960 | Oil | GT | 6 | 6,000 | 36,000 |
| 3 | Chandler | Chandler | GPP | 1930 | 1954 | Oil | S | 1 1 1 | 6,000 2,500 4,000 | 12,500 |
| 4 | Noranda | Noranda | NM | 1934 | 1957 | Waste heat | S | 1 1 1 | 2,600 3,000 4,500 | 10,100 |
| 5 | Drummondville | Drummondville | CCL | 1935 | 1953 | Coal, oil | S | 1 1 1 1 | 1,500 2,500 3,500 2,000 | 9,500 |
| 6 | Murdochville | Murdochville | GCM | 1952 | 1955 | Oil, waste heat | S IC | 1 2 1 | 5,400 1,000 300 | 7,700 |
| 7 | Thurso | Thurso | TPPC | 1957 | - | Coal, oil, wood-waste | S | 1 | 7,500 | 7,500 |
| 8 | Quebec City | Quebec City | ACPP | 1927 | - | Oil | S | 1 | 7,500 | 7,500 |
| 9 | Cap aux Meules | Îles-de-la-Madeleine | QHEC | 1953 | 1964 | Oil | IC | 1 3 1 | 1,065 1,000 1,200 | 5,265 |
| 10 | Magog | Magog | DTC | 1938 | 1948 | Coal | S | 2 | 2,000 | 4,000 |
| 11 | Gatineau | Gatineau | CIPC | 1927 | 1927 | Coal | S | 4 | 900 | 3,600 |
| 12 | Montreal | Montreal | CDSC | 1925 | 1947 | Gas, oil | S | 2 1 | 1,000 1,500 | 3,500 |
| 13 | Schefferville | Schefferville | IOCC | 1956 | 1956 | Oil | IC | 3 | 1,000 | 3,000 |
| 14 | Three Rivers | Three Rivers | CIPC | 1922 | 1925 | Coal, oil, wood-waste | S | 6 | 500 | 3,000 |
| 15 | Havre St. Pierre | Havre St. Pierre | REC | 1950 | 1963 | Oil | IC | 1 1 3 | 1,000 500 300 | 2,400 |
| 16 | Port and Terminal (Stand-by) | Port Cartier | QCMC | 1960 | 1960 | Oil | IC | 2 1 | 1,000 350 | 2,350 |
| 17 | Lac Jeannine (Stand-by) | Gagnon | QCMC | 1960 | 1960 | Oil | IC | 2 | 1,000 | 2,000 |
| 18 | Rivière-du-Loup | Rivière-du-Loup | CRL | 1947 | 1953 | Oil | IC | 2 1 | 240 1,360 | 1,840 |

Total capacity of plants 1,500 kw. and over (not listed above) 7,250

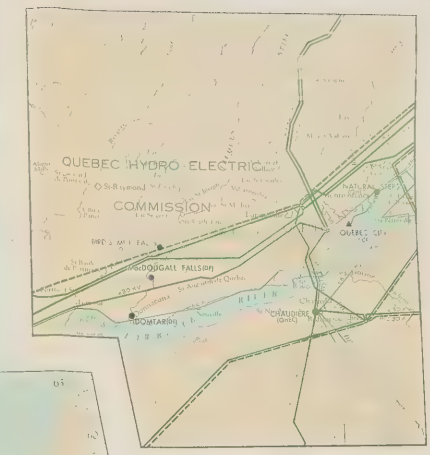
Total capacity of plants under 1,500 kw. 11,512

Total (all plants) 440,517

GT - Gas Turbine, IC - Internal Combustion, S - Steam

OWNER CODE INDEX

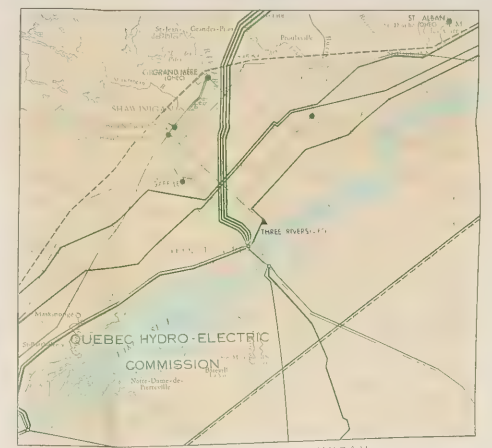
| CODE | OWNER |
|------------|---|
| ACPP..... | Anglo-Canadian Pulp and Paper Mills Limited |
| AL..... | Ayers Limited |
| ALCAN..... | Aluminum Company of Canada Limited |
| CCL..... | Canadian Celanese Limited |
| CDSC..... | Canada and Dominion Sugar Company Limited |
| CIPC..... | Canadian International Paper Company |
| CRL..... | City of Rivière-du-Loup |
| CS..... | City of Sherbrooke |
| DP..... | Donnacona Paper Company |
| DPP..... | Domtar Pulp and Paper Company Limited |
| DT..... | Dominion Tar and Chemical Company |
| DTC..... | Dominion Textile Company Limited |
| EBEC..... | E. B. Eddy Company |
| EML..... | Électrique de Mont Laurier Limitée |
| ERC..... | Electric Reduction Company |
| GCM..... | Gaspé Copper Mines Limited |
| GPC..... | Gulf Power Company |
| GPP..... | Gaspesia Pulp and Paper Company Limited |
| HJP..... | Hart Jaune Power Company |
| IOCC..... | Iron Ore Company of Canada |
| JMC..... | James MacLaren Company Limited |
| LMC..... | Lorraine Mining Company Limited |
| MCL..... | Mohawk Corporation Limited |
| MJ..... | Municipality of Jonquière |
| MP..... | Manicouagan Power Company |
| MQPC..... | MacLaren-Québec Power Company |
| NM..... | Noranda Mines Limited |
| OFM..... | Ogilvie Flour Mills |
| OVPC..... | Ottawa Valley Power Company |
| PBC..... | Price Company Limited |
| PELC..... | Pembroke Electric Light Company Limited |
| QCMC..... | Québec Cartier Mining Company |
| QHEC..... | Québec Hydro-Electric Commission |
| QNSPC..... | Québec-North Shore Paper Company |
| REC..... | Romaine Electric Company Limited |
| SAPC..... | Saguenay Power Company |
| SMPC..... | Smelter Power Corporation |
| TPPC..... | Thurso Pulp and Paper Company |



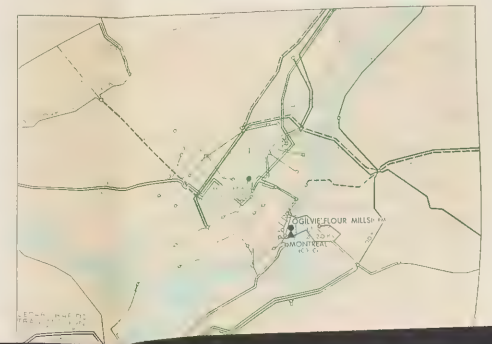
QUEBEC



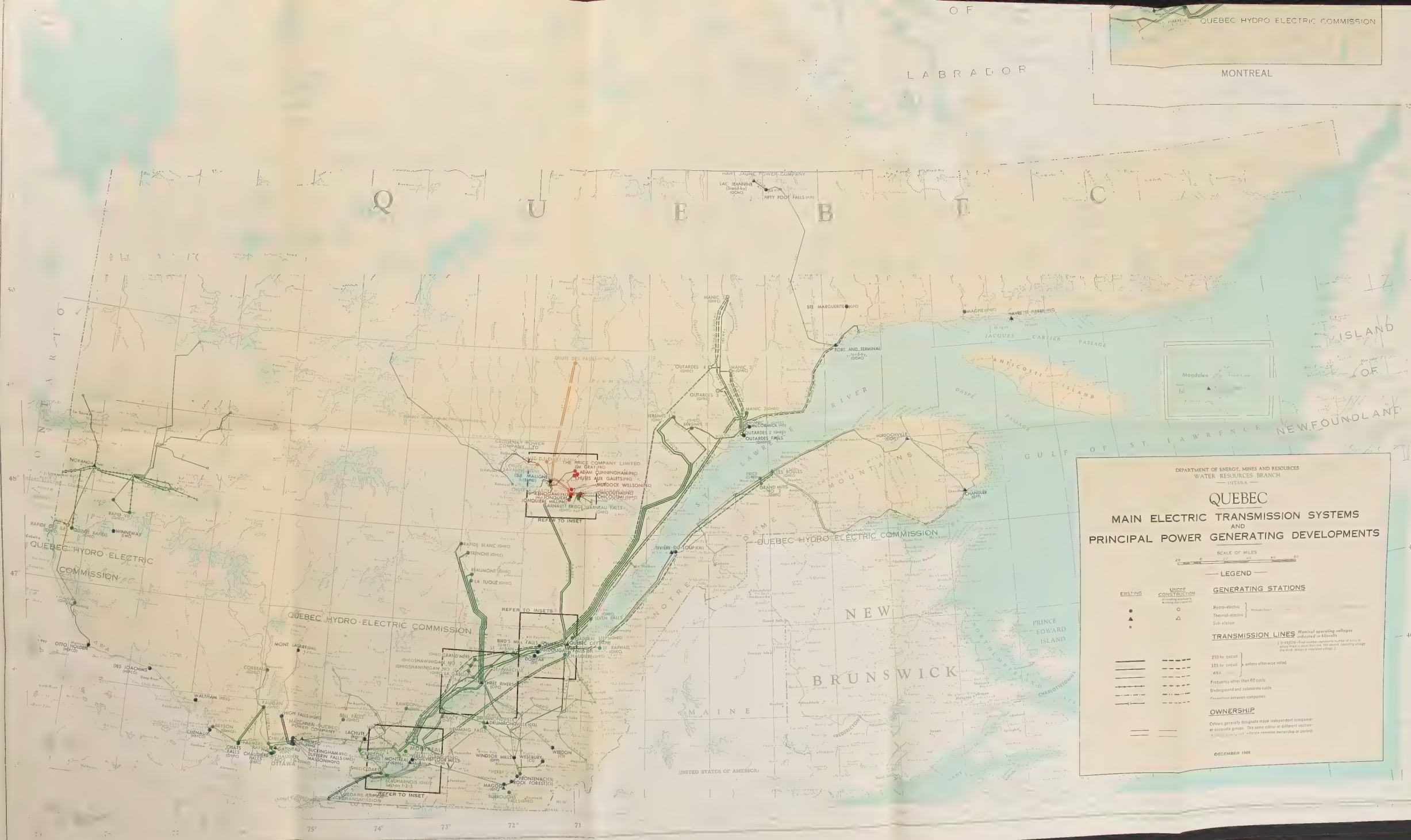
ISLE MALIGNE - CHICOUTIMI



THREE RIVERS - SHAWINIGAN



COAST



DEPARTMENT OF ENERGY, MINES AND RESOURCES
WATER RESOURCES BRANCH
OTTAWA

QUEBEC

MAIN ELECTRIC TRANSMISSION SYSTEMS AND PRINCIPAL POWER GENERATING DEVELOPMENTS

SCALE OF MILES
0 20 40 60

LEGEND

GENERATING STATIONS

Hydro-electric
Thermal-electric
Sub-station

TRANSMISSION LINES

230 kv circuit
115 kv circuit
60 kv
Frequency other than 60 cycle
Underground and submarine cable
Power lines between companies

OWNERSHIP

Colours generally designate major independent companies or associate groups. The same colour on different sections of a line indicates common ownership or control.

DECEMBER 1966

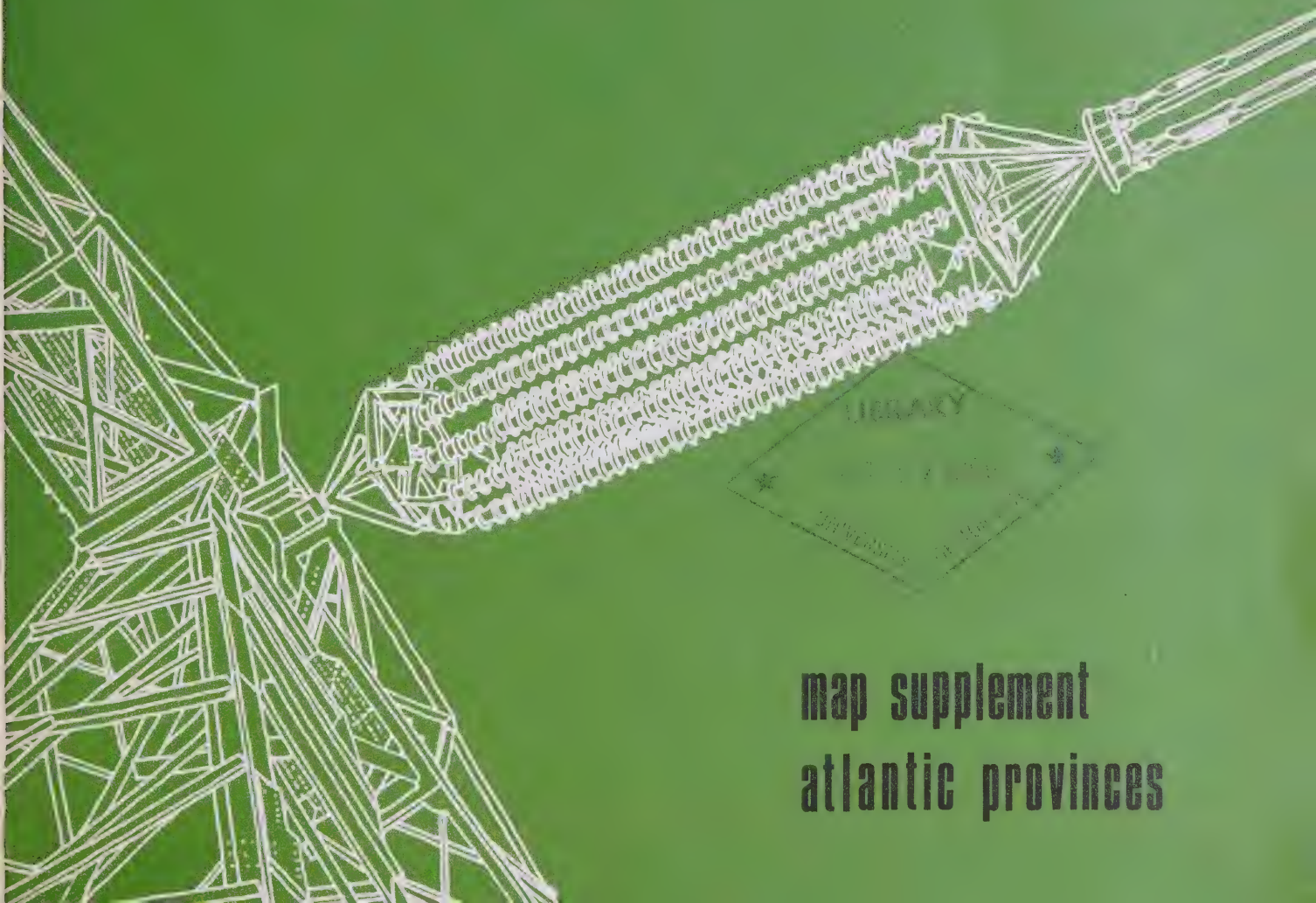
MT 51

S22

San Fernando, California

electric power in canada

1967



map supplement
atlantic provinces



**TRANSMISSION
AND
GENERATING FACILITIES**

Atlantic Provinces

**INLAND WATERS BRANCH
DEPARTMENT OF ENERGY, MINES AND RESOURCES**

ROGER DUHAMEL, F.R.S.C.
Queen's Printer and Controller of Stationery
Ottawa, 1968

Cat. No.: M23—108/1967—1

HYDRO

HYDRO

| No. | Development | River | Owner | Year Installed | | Rated Head ft. | No. of Units | Turbines | | Generators | |
|---|-------------|------------|-------|----------------|-------------|---------------------|------------------|----------------------------|--------------------|--------------------------|--------------------|
| | | | | First Unit | Latest Unit | | | Unit Capacity hp. | Total Capacity hp. | Unit Capacity kw. | Total Capacity kw. |
| 1 | Beechwood | Saint John | NBEP | 1957 | 1962 | 57 | 2 | 45,000 55,000 | 145,000 | 36,000 40,500 | 112,500 |
| 2 | Grand Falls | Saint John | NBEP | 1928 | 1931 | 125 | 4 | 20,000 | 80,000 | 15,750 | 63,000 |
| 3 | Tinker | Aroostook | MNBP | 1906 | 1965 | 85 | 2 2 1 | 2,000 5,000 33,000 | 47,000 | 1,500 3,520 20,800 | 30,840 |
| 4 | Tobique | Tobique | NBEP | 1953 | 1953 | 75 | 2 | 13,500 | 27,000 | 10,000 | 20,000 |
| 5 | Great Falls | Nepisiguit | BPPC | 1921 | 1930 | 108 110 | 2 1 | 5,000 5,500 | 15,500 | 3,600 3,600 | 10,800 |
| 6 | Sisson | Tobique | NBEP | 1965 | 1965 | 135 | 1 | 12,500 | 12,500 | 10,000 | 10,000 |
| 7 | Musquash | Musquash | NBEP | 1920 | 1920 | 99.5 124.5 | 2 1 | 3,670 3,760 | 11,100 | 2,320 2,320 | 6,960 |
| 8 | Milltown | St. Croix | NBEP | 1911 | 1967 | 21 25 30 1 | 3 1 1 1 | 1,080 500 468 500 | 4,708 | 770 376 350 400 | 3,436 |
| 9 | Edmundston | Madawaska | FC | 1918 | 1918 | 21.1 | 2 | 1,000 | 2,000 | 1,000 | 2,000 |
| Total capacity of plants under 1,500 kw. | | | | | | | | | 3,025 | | 2,500 |
| Total capacity of turbines connected directly to mechanical equipment | | | | | | | | | 5,000 | | |
| Total (all plants) | | | | | | | | | 352,833 | | 262,036 |

Nova Scotia

| | | | | | | | | | | | |
|----|------------------|---------------------|-------|------|------|------------|--------|----------------|--------|----------------|--------|
| 1 | Weymouth Falls | Sissiboo | NSPC | 1960 | 1967 | 122 | 2 | 12,000 | 24,000 | 9,000 | 18,000 |
| 2 | Deep Brook | Mersey | NSPC | 1950 | 1950 | 46 | 2 | 6,400 | 12,800 | 4,500 | 9,000 |
| 3 | Big Falls | Mersey | NSPC | 1929 | 1929 | 58 | 2 | 6,350 | 12,700 | 4,500 | 9,000 |
| 4 | Lower Lake Falls | Mersey | NSPC | 1929 | 1929 | 48.5 | 2 | 5,300 | 10,600 | 3,690 | 7,380 |
| 5 | Cowie Falls | Mersey | NSPC | 1937 | 1937 | 43 | 2 | 5,100 | 10,200 | 3,600 | 7,200 |
| 6 | Ruth Falls | East, Sheet Harbour | NSPC | 1927 | 1936 | 110 109 | 2 1 | 3,145 4,300 | 10,590 | 2,000 2,970 | 6,970 |
| 7 | Hells Gates | Black | NSLPC | 1930 | 1949 | 185 | 1 1 | 4,500 4,500 | 9,000 | 3,360 3,570 | 6,930 |
| 8 | Nictaux | Nictaux | NSLPC | 1954 | - | 382 | 1 | 9,000 | 9,000 | 6,800 | 6,800 |
| 9 | Gulch | Bear | NSPC | 1956 | - | 225 | 1 | 8,500 | 8,500 | 6,000 | 6,000 |
| 10 | Sissiboo Falls | Sissiboo | NSPC | 1960 | - | 87 | 1 | 8,000 | 8,000 | 6,000 | 6,000 |
| 11 | Upper Lake Falls | Mersey | NSPC | 1929 | 1929 | 31.5 | 2 | 2,350 | 4,700 | 2,700 | 5,400 |
| 12 | Hollow Bridge | Black | NSLPC | 1940 | - | 148 | 1 | 7,500 | 7,500 | 5,312 | 5,312 |

HYDRO

| No. | Development | River | Owner | Year Installed | | Rated Head ft. | No. of Units | Turbines | | Generators | |
|-----|-------------|-------|-------|----------------|-------------|----------------|--------------|-------------------|--------------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | Unit Capacity hp. | Total Capacity hp. | Unit Capacity kw. | Total Capacity kw. |

NOVA SCOTIA (Cont'd)

| | | | | | | | | | | | |
|----|-------------------|---------------------|-------|------|------|-------|---|-------|-------|-------|-------|
| 13 | Tidewater | North East | NSPC | 1921 | 1921 | 91.5 | 2 | 3,450 | 6,900 | 2,320 | 4,640 |
| 14 | Lower Great Brook | Mersey | NSPC | 1955 | 1955 | 22 | 2 | 3,120 | 6,240 | 2,250 | 4,500 |
| 15 | Ridge | Bear | NSPC | 1957 | - | 140 | 1 | 5,300 | 5,300 | 4,000 | 4,000 |
| 16 | Dickie Brook | Dickie Brook | NSPC | 1948 | 1948 | 298 | 1 | 1,750 | 1,750 | 1,200 | 1,200 |
| | | | | | | | 1 | 1,750 | 3,500 | 2,600 | 3,800 |
| 17 | Avon No. 1 | Avon | NSLPC | 1958 | - | 117.5 | 1 | 5,000 | 5,000 | 3,750 | 3,750 |
| 18 | Malay Falls | East, Sheet Harbour | NSPC | 1924 | 1954 | 43 | 2 | 1,850 | 1,850 | 1,200 | 1,200 |
| | | | | | | 41 | 1 | 1,740 | 5,440 | 1,200 | 3,600 |
| 19 | Paradise | Paradise Brook | NSLPC | 1950 | - | 465 | 1 | 5,000 | 5,000 | 3,600 | 3,600 |
| 20 | Methal's | Methal's Brook | NSLPC | 1949 | - | 45 | 1 | 4,600 | 4,600 | 3,400 | 3,400 |
| 21 | Sandy Lake | North East | NSPC | 1927 | 1927 | 118 | 2 | 2,500 | 5,000 | 1,600 | 3,200 |
| 22 | White Rock | Gasperaux | NSLPC | 1952 | - | 58 | 1 | 4,000 | 4,000 | 3,200 | 3,200 |
| 23 | St. Croix | St. Croix | MBPP | 1934 | - | 148 | 1 | 4,200 | 4,200 | 3,000 | 3,000 |
| 24 | Avon No. 2 | Avon | NSLPC | 1929 | - | 142 | 1 | 3,900 | 3,900 | 3,000 | 3,000 |
| 25 | Lumsden | Black | NSLPC | 1942 | - | 72 | 1 | 4,500 | 4,500 | 2,800 | 2,800 |
| 26 | Mill Lake | North East | NSPC | 1921 | 1921 | 162.5 | 2 | 1,900 | 3,800 | 1,280 | 2,560 |
| 27 | Tusket | Tusket | NSPC | 1929 | 1929 | 18 | 3 | 940 | 2,820 | 720 | 2,160 |
| 28 | Salmon Hole | St. Croix | MBPP | 1938 | - | 75 | 1 | 2,500 | 2,500 | 2,000 | 2,000 |

Total capacity of plants under 1,500 kw.

6,365

4,358

Total capacity of turbines connected directly to mechanical equipment

Total (all plants)

206,655

151,560

Newfoundland

| | | | | | | | | | | | |
|---|---------------|----------------------|------|------|------|-----|---|---------|---------|--------|---------|
| 1 | Bay d'Espoir | Salmon | NPC | 1967 | 1967 | | 3 | 100,000 | 300,000 | 76,500 | 229,500 |
| 2 | Twin Falls | Unknown | TFPC | 1962 | 1963 | 290 | 4 | 60,000 | 240,000 | 46,800 | 187,200 |
| 3 | Deer Lake | Humber | BPC | 1925 | 1930 | 247 | 4 | 16,000 | | 11,284 | |
| | | | | | | | 3 | 16,000 | | 11,305 | |
| | | | | | | | 2 | 29,000 | 170,000 | 19,950 | 118,951 |
| 4 | Grand Falls | Exploits | PPP | 1909 | 1938 | 109 | 3 | 2,500 | | 1,500 | |
| | | | | | | | 1 | 36,000 | 43,500 | 26,000 | 30,500 |
| 5 | Menihek | Ashuanipi (Labrador) | IOCC | 1954 | 1960 | 34 | 2 | 6,000 | | 4,250 | |
| | | | | | | 40 | 1 | 13,500 | 25,500 | 10,200 | 18,700 |
| 6 | Bishops Falls | Exploits | PPP | 1909 | 1952 | 35 | 7 | 2,700 | | 2,025 | |
| | | | | | | | 2 | 1,500 | 21,900 | 1,500 | 17,175 |

HYDRO

| No. | Development | River | Owner | Year Installed | | Rated Head ft. | No. of Units | Turbines | | Generators | |
|---|----------------|----------------------|-------|----------------|-------------|----------------|--------------|-------------------|--------------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | Unit Capacity hp. | Total Capacity hp. | Unit Capacity kw. | Total Capacity kw. |
| NEWFOUNDLAND (Cont'd) | | | | | | | | | | | |
| 7 | Rattling Brook | Rattling Brook | NLPC | 1958 | 1958 | 307 | 2 | 8,500 | 17,000 | 6,375 | 12,750 |
| 8 | Mobile | Mobile | NLPC | 1951 | - | 370 | 1 | 13,000 | 13,000 | 9,350 | 9,350 |
| 9 | Watson's Brook | Corner Brook | BPC | 1958 | 1958 | 559 | 2 | 6,000 | 12,000 | 4,600 | 9,200 |
| 10 | Horse Chops | Horse Chops | NLPC | 1953 | - | 276 | 1 | 10,000 | 10,000 | 7,650 | 7,650 |
| 11 | Tors Cove | Tors Cove | NLPC | 1942 | 1951 | 173 | 2 | 2,850 | | 2,000 | |
| | | | | | | | 1 | 3,500 | 9,200 | 2,500 | 6,500 |
| 12 | Cape Broyle | Horse Chops | NLPC | 1952 | - | 176 | 1 | 7,600 | 7,600 | 6,000 | 6,000 |
| 13 | Sandy Brook | Sandy Brook | NLPC | 1963 | - | 115 | 1 | 8,000 | 8,000 | 5,950 | 5,950 |
| 14 | Lookout Brook | Lookout Brook | WCPC | 1945 | 1958 | 575 | 2 | 1,850 | | 1,400 | |
| | | | | | | | 1 | 3,600 | 7,300 | 2,400 | 5,200 |
| 15 | Petty Harbour | Petty Harbour | NLPC | 1908 | 1926 | 190 | 2 | 2,100 | | 1,600 | |
| | | | | | | | 1 | 2,750 | 6,950 | 1,800 | 5,000 |
| 16 | New Chelsea | New Chelsea Brook | NLPC | 1957 | - | 275 | 1 | 5,600 | 5,600 | 4,000 | 4,000 |
| 17 | Seal Cove | Seal Cove | NLPC | 1922 | 1927 | 190 | 1 | 1,500 | | 1,200 | |
| | | | | | | | 1 | 3,040 | 4,540 | 2,400 | 3,600 |
| 18 | Pierres Brook | Pierres Brook | NLPC | 1931 | - | 263 | 1 | 4,500 | 4,500 | 3,200 | 3,200 |
| 19 | Rocky Pond | Tors Cove | NLPC | 1943 | - | 107 | 1 | 4,200 | 4,200 | 3,200 | 3,200 |
| 20 | Lockston | Lockston | NLPC | 1956 | 1961 | 270 | 2 | 2,000 | 4,000 | 1,500 | 3,000 |
| 21 | Hearts Content | Hearts Content Brook | NLPC | 1960 | - | 150 | 1 | 3,600 | 3,600 | 2,400 | 2,400 |
| 22 | Buchans Brook | Buchans Brook | ASRC | 1927 | - | 163 | 1 | 2,359 | 2,359 | 1,760 | 1,760 |
| Total capacity of plants under 1,500 kw. | | | | | | | | | 7,490 | | 5,440 |
| Total capacity of turbines connected directly to mechanical equipment | | | | | | | | | 22,000 | | |
| Total (all plants) | | | | | | | | | 950,239 | | .696,226 |

THERMAL

THERMAL

| No. | Station | Location | Owner | Year Installed | | Fuel | Type of Prime Mover | Generators | | |
|-----|------------------|-----------------|-------|----------------|-------------|------------------|---------------------|------------------|------------------------------|--------------------|
| | | | | First Unit | Latest Unit | | | No. | Unit Capacity kw. | Total Capacity kw. |
| 1 | Courtenay Bay | East Saint John | NBEPC | 1961 | 1967 | Oil | S | 1 1 2 | 50,000 13,365 100,000 | 263,365 |
| 2 | Grand Lake No. 2 | Newcastle Creek | NBEPC | 1951 | 1963 | Coal | S | 2 1 1 | 5,000 15,000 60,000 | 85,000 |
| 3 | Chatham | Chatham | NBEPC | 1948 | 1956 | Coal, oil | S | 1 1 | 12,500 20,000 | 32,500 |
| 4 | Lancaster | Lancaster | IPP | 1947 | 1960 | Oil | S | 1 1 1 | 2,000 10,000 12,500 | 24,500 |
| 5 | Bathurst | Bathurst | BPPC | 1937 | 1958 | Coal, oil | S | 1 1 1 | 6,000 7,600 7,000 | 20,600 |
| 6 | Edmundston | Edmundston | FC | 1949 | 1958 | Coal, wood-waste | S | 1 1 1 | 3,000 3,800 12,500 | 19,300 |
| 7 | Dalhousie | Dalhousie | NBIPC | 1929 | 1937 | Coal | S | 1 1 2 2 | 6,000 8,000 800 750 | 17,100 |
| 8 | Dock Street | Saint John | NBEPC | 1929 | 1947 | Coal, oil | S | 1 1 | 6,000 10,000 | 16,000 |
| 9 | Newcastle | Newcastle | FC | - | 1967 | Coal | S | 1 | 15,625 | 15,625 |
| 10 | Grand Lake No. 1 | Newcastle Creek | NBEPC | 1931 | 1944 | Coal | S | 1 1 | 6,250 7,500 | 13,750 |
| 11 | Atholville | Atholville | FC | 1929 | 1956 | Coal, wood-waste | S | 3 1 1 | 1,000 2,000 5,000 | 10,000 |
| 12 | Saint John | Saint John | ASR | 1954 | 1962 | Oil | S | 1 1 | 2,500 1,000 | 3,500 |
| 13 | Edmundston | Edmundston | ME | 1947 | 1955 | Oil | IC | 2 1 | 690 1,876 | 3,256 |
| 14 | Campbellton | Campbellton | CC | 1946 | 1953 | Oil | IC | 1 1 1 | 240 1,136 1,360 | 2,736 |
| 15 | Grand Manan | Grand Manan | NBEPC | 1957 | 1966 | Oil | IC | 1 1 2 1 | 200 250 700 503 | 2,353 |

Total capacity of plants 1,500 kw. and over (not listed above)

-

Total capacity of plants under 1,500 kw.

2,000

Total (all plants)

531,585

IC - Internal Combustion, S - Steam

THERMAL

| No. | Station | Location | Owner | Year Installed | | Fuel | Type of Prime Mover | Generators | | |
|-----|---------|----------|-------|----------------|-------------|------|---------------------|------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | No. | Unit Capacity kw. | Total Capacity kw. |

Nova Scotia

| | | | | | | | | | | |
|----|--------------------|--------------------|-------|------|------|-----------------|----|------------------|--------------------------------------|---------|
| 1 | Lower Water Street | Halifax | NSLPC | 1944 | 1959 | Coal, oil | S | 1 2 1 2 | 12,500 20,000 25,000 45,000 | 167,500 |
| 2 | Glace Bay | Glace Bay | NSPC | 1932 | 1966 | Coal | S | 2 4 1 | 6,000 15,000 36,000 | 108,000 |
| 3 | Tufts Cove | Tufts Cove | NSLPC | 1965 | - | - | S | 1 | 100,000 | 100,000 |
| 4 | Trenton | Trenton | NSPC | 1951 | 1959 | Coal | S | 2 2 | 10,000 20,000 | 60,000 |
| 5 | Sydney | Sydney | DOSCO | 1919 | 1943 | Coal, oil, gas | S | 1 2 1 1 | 7,600 3,000 5,000 16,000 | 34,600 |
| 6 | Harrison Lake | Maccan | NSPC | 1926 | 1949 | Coal | S | 1 1 1 1 | 15,000 6,000 1,500 4,000 | 26,500 |
| 7 | Abercrombie Point | Albercrombie Point | SMP | 1967 | | | | 1 | 18,750 | 18,750 |
| 8 | Port Hawkesbury | Point Tupper | NSP | 1962 | - | Coal | S | 1 | 10,000 | 10,000 |
| 9 | Brooklyn | Brooklyn | BMPC | 1943 | - | Oil, wood-waste | S | 1 | 5,170 | 5,170 |
| 10 | Dartmouth | Dartmouth | IOC | 1965 | - | Oil | S | 1 | 3,750 | 3,750 |
| 11 | King Street | Yarmouth | NSLPC | 1937 | 1948 | Oil | IC | 1 1 2 | 320 400 600 | 1,920 |

Total capacity of plants 1,500 kw. and over (not listed above) 5,200

Total capacity of plants under 1,500 kw. 2,203

Total (all plants) 543,593

IC - Internal Combustion, S - Steam

THERMAL

| No. | Station | Location | Owner | Year Installed | | Fuel | Type of Prime Mover | Generators | | |
|-----|---------|----------|-------|----------------|-------------|------|---------------------|------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | No. | Unit Capacity kw. | Total Capacity kw. |

Prince Edward Island

| | | | | | | | | | | |
|---|---------------|---------------|-----|------|------|-----|----|---|--------|--------|
| 1 | Charlottetown | Charlottetown | MEC | 1931 | 1963 | Oil | S | 1 | 1,500 | 50,500 |
| | | | | | | | | 1 | 4,000 | |
| | | | | | | | | 2 | 7,500 | |
| | | | | | | | | 1 | 10,000 | |
| | | | | | | | | 1 | 20,000 | |
| 2 | Summerside | Summerside | MS | 1940 | 1963 | Oil | IC | 1 | 200 | 6,890 |
| | | | | | | | | 2 | 250 | |
| | | | | | | | | 1 | 555 | |
| | | | | | | | | 1 | 1,135 | |
| | | | | | | | | 2 | 2,250 | |

Total capacity of plants 1,500 kw. and over (not listed above)

-

Total capacity of plants under 1,500 kw.

-

Total (all plants)

57,390

Newfoundland

| | | | | | | | | | | |
|----|------------------|------------------|------|------|------|-----|----|---|--------|--------|
| 1 | St. John's | St. John's | NLPC | 1957 | 1959 | Oil | S | 1 | 10,000 | 30,000 |
| | | | | | | | | 1 | 20,000 | |
| 2 | Control Centre | Holyrood | NPC | 1966 | - | Gas | GT | 1 | 14,150 | 14,150 |
| 3 | Grand Falls | Grand Falls | PPP | 1930 | 1931 | Oil | S | 2 | 5,000 | 10,000 |
| 4 | Corner Brook | Corner Brook | BPC | 1957 | - | Oil | S | 1 | 6,600 | 6,600 |
| 5 | Tilt Cove | Tilt Cove | TCPC | 1960 | - | Oil | S | 1 | 5,000 | 5,000 |
| 6 | Wabush Lake | Wabush Lake | WM | | 1963 | Oil | IC | 4 | 1,000 | 4,000 |
| 7 | Labrador City | Carol Lake | IOCC | | | Oil | | | | 3,910 |
| 8 | Palmquist | Gander | DOT | 1948 | 1962 | Oil | IC | 3 | 1,000 | 3,000 |
| 9 | Happy Valley | Goose Bay | NLPC | 1967 | 1967 | Oil | IC | 2 | 1,100 | 2,950 |
| 10 | Port aux Basques | Port aux Basques | NLPC | 1945 | 1964 | Oil | IC | 1 | 750 | |
| | | | | | | | | 2 | 350 | |
| | | | | | | | | 3 | 250 | |
| | | | | | | | | 1 | 280 | |
| | | | | | | | | 1 | 300 | |
| | | | | | | | | 1 | 209 | 2,539 |
| 11 | St. John's | St. John's | NLPC | 1956 | - | Oil | IC | 1 | 2,500 | 2,500 |
| 12 | Salt Pond | Salt Pond | NLPC | 1964 | 1964 | Oil | IC | 3 | 500 | 1,500 |

Total capacity of plants 1,500 kw. and over (not listed above)

4,000

Total capacity of plants under 1,500 kw.

17,327

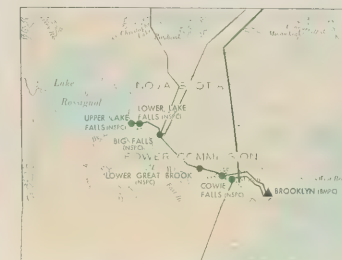
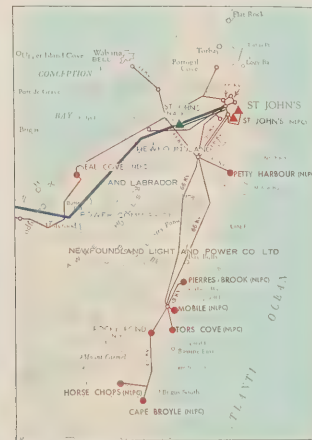
Total (all plants)

107,476

GT - Gas Turbine, IC - Internal Combustion, S - Steam

OWNER CODE INDEX

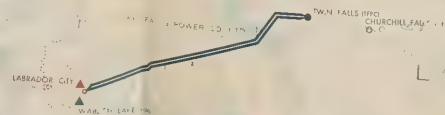
| CODE | OWNER |
|-------------|---|
| ASR..... | Atlantic Sugar Refineries |
| ASRC..... | American Smelting and Refining Company Limited |
| BMPC..... | Bowaters Mersey Paper Company Limited |
| BPC..... | Bowater Power Company Limited |
| BPPC..... | Bathurst Power and Paper Company Limited |
| CC..... | City of Campbellton |
| DOSCO..... | Dominion Iron and Steel Company Limited |
| DOT..... | Department of Transport, Government of Canada |
| FC..... | Fraser Companies Limited |
| IOC..... | Imperial Oil Limited |
| IOCC..... | Iron Ore Company of Canada |
| IPP..... | Irving Pulp and Paper Limited |
| MBPP..... | Minas Basin Pulp and Power Company |
| ME..... | Municipality of Edmundston |
| MEC..... | Maritime Electric Company Limited |
| MNBP..... | Maine and New Brunswick Electrical Power Co. Ltd. |
| MS..... | Municipality of Summerside |
| NBEPCL..... | New Brunswick Electric Power Commission |
| NBIPC..... | New Brunswick International Paper Company Limited |
| NLPC..... | Newfoundland Light and Power Co. Limited |
| NPC..... | Newfoundland and Labrador Power Commission |
| NSLPC..... | Nova Scotia Light and Power Company Limited |
| NSP..... | Nova Scotia Pulp Limited |
| NSPC..... | Nova Scotia Power Commission |
| PPP..... | Price (Nfld) Pulp and Paper Limited |
| SMP..... | Scott Maritimes Pulp Limited |
| TCPCL..... | Tilt Cove Power Corporation |
| TFPC..... | Twin Falls Power Company Limited |
| WCPCL..... | West Coast Power Company Limited |
| WM..... | Wabush Mines |

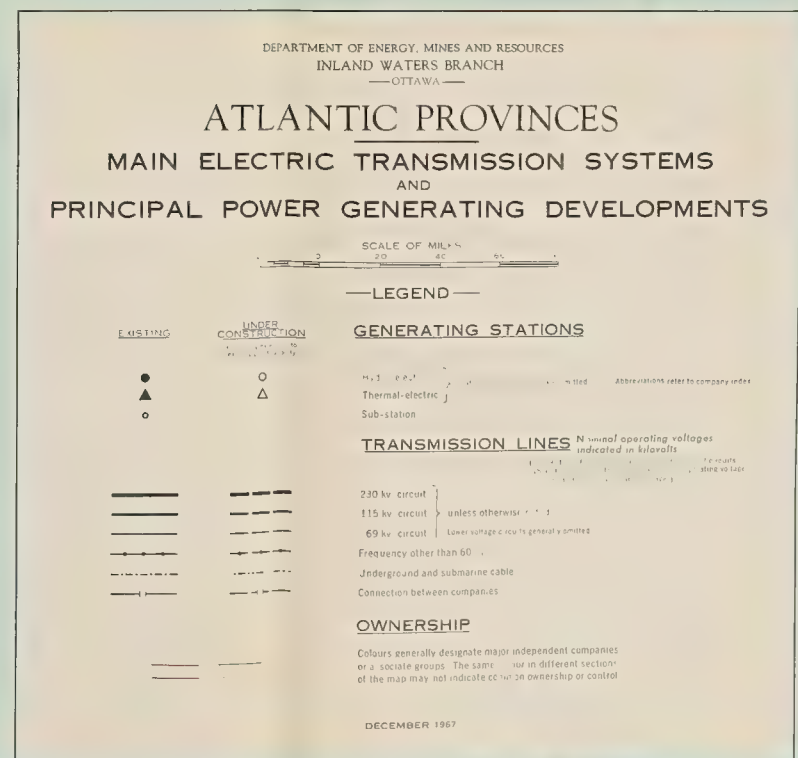


C O A S T

O F

L A B R A D O R







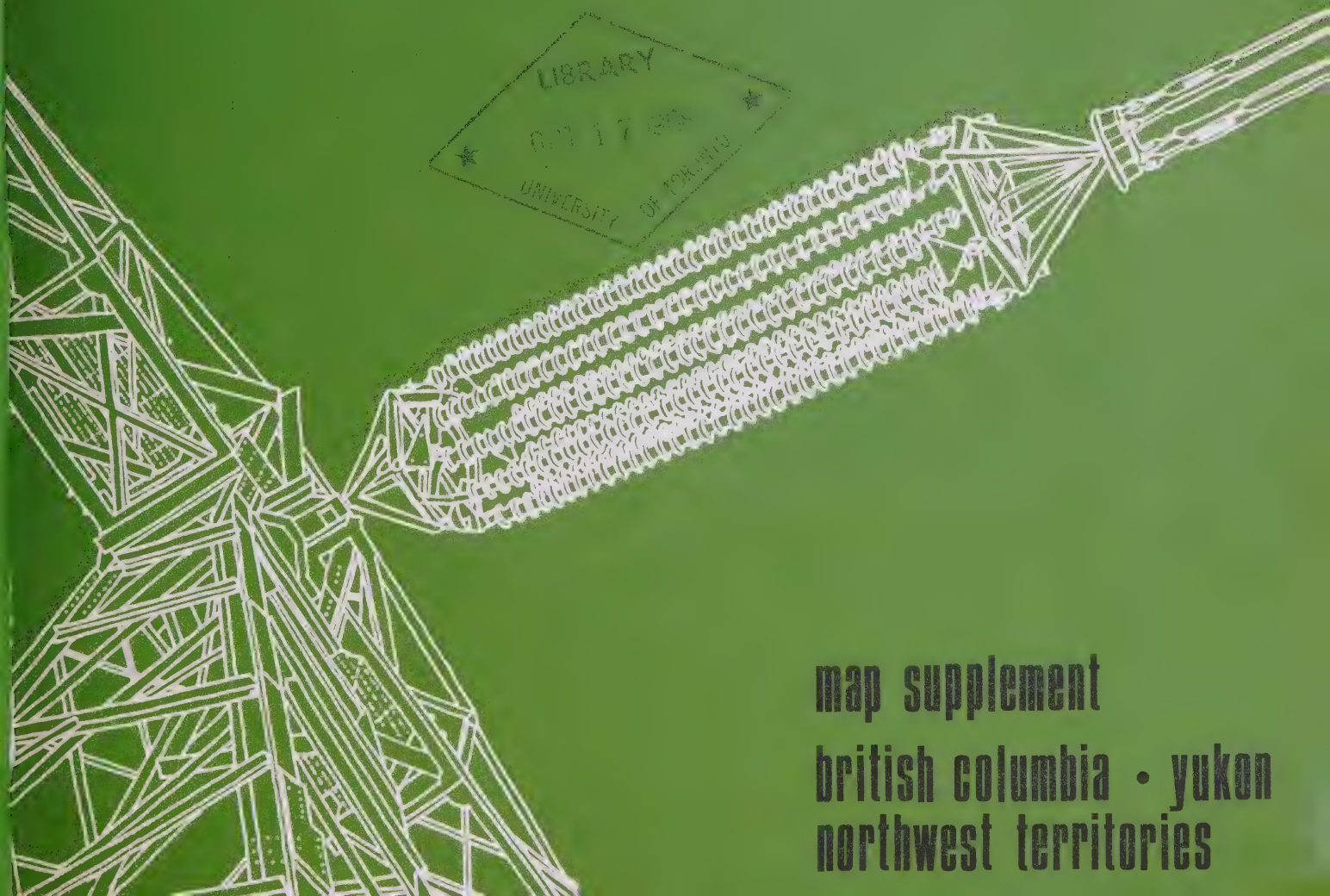
Inland Waters Branch
DEPARTMENT OF ENERGY, MINES AND RESOURCES
OTTAWA, CANADA

AI MT 51

S22

electric power in canada

1997



map supplement

british columbia • yukon
northwest territories



**TRANSMISSION
AND
GENERATING FACILITIES**

**British Columbia • Yukon
and Northwest Territories**

**INLAND WATERS BRANCH
DEPARTMENT OF ENERGY, MINES AND RESOURCES**

ROGER DUHAMEL, F.R.S.C.
Queen's Printer and Controller of Stationery
Ottawa, 1968

Cat. No.: M23—108/1967—5

HYDRO

HYDRO

| No. | Development | River | Owner | Year Installed | | Rated Head ft. | No. of Units | Turbines | | Generators | |
|-----|-------------|-------|-------|----------------|-------------|----------------|--------------|-------------------|--------------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | Unit Capacity hp. | Total Capacity hp. | Unit Capacity kw. | Total Capacity kw. |

British Columbia

| | | | | | | | | | | | |
|----|--------------------|-------------------------------|-------|------|------|-------|---|---------|-----------|---------|---------|
| 1 | Kemano | Nechako to Kemano | ALCAN | 1954 | 1967 | 2,500 | 4 | 150,000 | | 97,600 | |
| | | | | | | | 4 | 150,000 | 1,200,000 | 105,600 | 812,800 |
| 2 | Waneta | Pend d'Oreille | CMSC | 1954 | 1966 | 210 | 1 | 130,000 | | 72,000 | |
| | | | | | | | 2 | 120,000 | | 72,000 | |
| | | | | | | | 1 | 130,000 | 500,000 | 76,500 | 292,500 |
| 3 | Bridge River No. 2 | Bridge River | BCHPA | 1959 | 1960 | 1,264 | 4 | 82,000 | 328,000 | 62,000 | 248,000 |
| 4 | Bridge River No. 1 | Bridge River | BCHPA | 1948 | 1954 | 1,261 | 4 | 69,000 | 276,000 | 45,000 | 180,000 |
| 5 | Cheakamus | Cheakamus | BCHPA | 1957 | 1957 | 954 | 2 | 95,000 | 190,000 | 70,000 | 140,000 |
| 6 | John Hart | Campbell | BCHPA | 1947 | 1953 | 390 | 6 | 28,000 | 168,000 | 20,000 | 120,000 |
| 7 | Ruskin | Stave | BCHPA | 1930 | 1950 | 123 | 3 | 47,000 | 141,000 | 35,200 | 105,600 |
| 8 | Brilliant | Kootenay | CMSC | 1944 | 1949 | 90 | 3 | 37,000 | 111,000 | 27,200 | 81,600 |
| 9 | Wahleach | Wahleach Lake to Fraser | BCHPA | 1952 | - | 1,880 | 1 | 82,000 | 82,000 | 60,000 | 60,000 |
| 10 | Upper Bonnington | Kootenay | CMSC | 1907 | 1940 | 70 | 2 | 8,000 | | 5,062 | |
| | | | | | | | 2 | 9,000 | | 6,750 | |
| | | | | | | | 2 | 26,000 | 86,000 | 15,750 | 55,124 |
| 11 | Ladore Falls | Campbell | BCHPA | 1956 | 1957 | 122 | 2 | 35,000 | 70,000 | 27,000 | 54,000 |
| 12 | Stave Falls | Stave | BCHPA | 1912 | 1925 | 110 | 4 | 13,000 | | 10,500 | |
| | | | | | | 113 | 1 | 15,000 | 67,000 | 10,500 | 52,500 |
| 13 | Lake Buntzen No. 1 | Lake Buntzen to Burrard Inlet | BCHPA | 1951 | - | 380 | 1 | 70,000 | 70,000 | 50,000 | 50,000 |
| 14 | South Slocan | Kootenay | CMSC | 1928 | 1929 | 70 | 3 | 25,000 | 75,000 | 15,750 | 47,250 |
| 15 | Lower Bonnington | Kootenay | WKPL | 1925 | 1926 | 70 | 3 | 20,000 | 60,000 | 15,750 | 47,250 |
| 16 | Seton | Seton Creek | BCHPA | 1956 | - | 147 | 1 | 58,500 | 58,500 | 42,000 | 42,000 |
| 17 | Corra Linn | Kootenay | CMSC | 1932 | 1932 | 53 | 3 | 19,000 | 57,000 | 13,500 | 40,500 |
| 18 | Whatshan | Whatshan | BCHPA | 1951 | 1956 | 690 | 3 | 16,500 | 49,500 | 11,250 | 33,750 |
| 19 | Strathcona | Campbell | BCHPA | 1958 | - | 140 | 1 | 42,000 | 42,000 | 33,750 | 33,750 |
| 20 | Stillwater | Lois | MBPR | 1930 | 1948 | - | 2 | 25,000 | 50,000 | 16,200 | 32,400 |
| 21 | Clowhom Falls | Clowhom | BCHPA | 1958 | - | 145 | 1 | 40,000 | 40,000 | 30,000 | 30,000 |

HYDRO

| No. | Development | River | Owner | Year Installed | | Rated Head ft. | No. of Units | Turbines | | Generators | |
|---------------------------|--------------------|--------------------------------|-------|----------------|-------------|----------------------|------------------|----------------------------------|--------------------|--------------------------------|--------------------|
| | | | | First Unit | Latest Unit | | | Unit Capacity hp. | Total Capacity hp. | Unit Capacity kw. | Total Capacity kw. |
| | | | | | | | | | | | |
| BRITISH COLUMBIA (Cont'd) | | | | | | | | | | | |
| 22 | Puntledge | Puntledge | BCHPA | 1955 | - | 340 | 1 | 35,000 | 35,000 | 27,000 | 27,000 |
| 23 | Lake Buntzen No. 2 | Lake Buntzen to Burrard Inlet | BCHPA | 1913 | 1919 | 380 | 3 | 13,500 | 40,500 | 8,900 | 26,700 |
| 24 | Jordan River | Jordan | BCHPA | 1911 | 1931 | 1,010 | 2 1 1 | 5,430 10,125 18,000 | 38,985 | 3,200 8,000 12,000 | 26,400 |
| 25 | Ash River | Ash | BCHPA | 1959 | - | 735 | 1 | 35,000 | 35,000 | 25,200 | 25,200 |
| 26 | La Joie | Bridge | BCHPA | 1957 | - | 176 | 1 | 30,000 | 30,000 | 22,000 | 22,000 |
| 27 | Powell River | Powell | MBPR | 1911 | 1926 | 157 147 147 | 1 1 2 | 13,500 3,600 3,000 | 23,100 | 12,000 3,750 2,800 | 21,350 |
| 28 | Ocean Falls | Link | CZC | 1917 | 1932 | 143 | 2 2 | 2,100 6,300 | 16,800 | 1,900 4,200 | 12,200 |
| 29 | Elko | Elk | BCHPA | 1923 | 1924 | 190 | 2 | 7,500 | 15,000 | 6,000 | 12,000 |
| 30 | Falls River | Big Falls Creek | BCHPA | 1930 | 1960 | 248 | 2 | 6,000 | 12,000 | 4,800 | 9,600 |
| 31 | Nelson | Kootenay | CN | 1907 | 1950 | 60 60 70 70 | 1 1 1 1 | 1,670 1,900 3,000 6,750 | 13,320 | 750 1,000 2,120 4,800 | 8,670 |
| 32 | Alouette | Alouette Lake to Stave Lake | BCHPA | 1928 | - | 125.5 | 1 | 12,500 | 12,500 | 8,000 | 8,000 |
| 33 | Walter Hardman | Cranberry Creek | COR | 1960 | 1965 | 770 | 2 | 5,800 | 11,600 | 4,000 | 8,000 |
| 34 | Shuswap Falls | Shuswap | BCHPA | 1929 | 1942 | 72 82 | 1 1 | 3,800 4,000 | 7,800 | 2,400 2,800 | 5,200 |
| 35 | Aberfeldie | Bull | BCHPA | 1922 | 1922 | 275 | 2 | 3,650 | 7,300 | 2,500 | 5,000 |
| 36 | Beach | Britannia Creek Furry Creek | ACL | 1916 | 1917 | 1,835 760 | 1 1 | 3,750 3,750 | 7,500 | 2,000 2,000 | 4,000 |
| 37 | Spillimacheen | Spillimacheen | BCHPA | 1955 | 1955 | 207 | 2 1 | 1,200 3,000 | 5,400 | 900 2,200 | 4,000 |
| 38 | Tennent Creek | Tennent Creek | WM | 1966 | - | 2,050 | 1 | 4,500 | 4,500 | 3,060 | 3,060 |
| 39 | Woodfibre | Woodfibre Creek | RC | 1947 | - | 920 | 1 | 3,650 | 3,650 | 2,250 | 2,250 |

HYDRO

| No. | Development | River | Owner | Year Installed | | Rated Head ft. | No. of Units | Turbines | | Generators | |
|-----|-------------|-------|-------|----------------|-------------|----------------|--------------|-------------------|--------------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | Unit Capacity hp. | Total Capacity hp. | Unit Capacity kw. | Total Capacity kw. |

BRITISH COLUMBIA (Cont'd)

| | | | | | | | | | | | |
|----|------------|----------------------------------|----|------|---|-----|---|-------|-------|-------|-------|
| 40 | Port Alice | Victoria Lake to Neroutsos Inlet | RC | 1953 | - | 425 | 1 | 3,200 | 3,200 | 2,000 | 2,000 |
|----|------------|----------------------------------|----|------|---|-----|---|-------|-------|-------|-------|

| | | |
|--|-------|-------|
| Total capacity of plants under 1,500 kw. | 8,650 | 5,586 |
|--|-------|-------|

| | | |
|---|--------|--|
| Total capacity of turbines connected directly to mechanical equipment | 46,210 | |
|---|--------|--|

| | | |
|--------------------|-----------|-----------|
| Total (all plants) | 4,099,015 | 2,797,240 |
|--------------------|-----------|-----------|

Yukon Territory

| | | | | | | | | | | | |
|---|-------------------|----------|------|------|------|-----|---|-------|--------|-------|--------|
| 1 | Whitehorse Rapids | Yukon | NCPC | 1958 | 1958 | 61 | 2 | 7,500 | 15,000 | 5,695 | 11,390 |
| 2 | North Fork | Klondike | YCGC | 1911 | 1935 | 220 | 1 | 5,000 | | 3,600 | |
| | | | | | | | 1 | 5,000 | | 2,700 | |
| | | | | | | | 1 | 5,000 | 15,000 | 3,750 | 10,050 |
| 3 | Mayo River | Mayo | NCPC | 1952 | 1957 | 110 | 2 | 3,000 | 6,000 | 2,550 | 5,100 |

| | | |
|--|-------|-------|
| Total capacity of plants under 1,500 kw. | 2,140 | 1,650 |
|--|-------|-------|

| | | |
|---|---|--|
| Total capacity of turbines connected directly to mechanical equipment | - | |
|---|---|--|

| | | |
|--------------------|--------|--------|
| Total (all plants) | 38,140 | 28,190 |
|--------------------|--------|--------|

Northwest Territories

| | | | | | | | | | | | |
|---|---------------|-------------|------|------|---|-----|---|--------|--------|--------|--------|
| 1 | Twin Gorges | Taltson | NCPC | 1965 | - | - | 1 | 25,000 | 25,000 | 18,000 | 18,000 |
| 2 | Snare Falls | Snare | NCPC | 1960 | - | 63 | 1 | 9,200 | 9,200 | 7,000 | 7,000 |
| 3 | Snare Rapids | Snare | NCPC | 1948 | - | 56 | 1 | 8,350 | 8,350 | 7,000 | 7,000 |
| 4 | Bluefish Lake | Yellowknife | CMSC | 1941 | - | 110 | 1 | 4,700 | 4,700 | 3,360 | 3,360 |

| | | |
|--|--|--|
| Total capacity of plants under 1,500 kw. | | |
|--|--|--|

| | | |
|---|--|--|
| Total capacity of turbines connected directly to mechanical equipment | | |
|---|--|--|

| | | |
|--------------------|--------|--------|
| Total (all plants) | 47,250 | 35,360 |
|--------------------|--------|--------|

THERMAL

THERMAL

| No. | Station | Location | Owner | Year Installed | | Fuel | Type of Prime Mover | Generators | | |
|-----|-----------------|-----------------|-------|----------------|-------------|-----------------|---------------------|------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | No. | Unit Capacity kw. | Total Capacity kw. |
| 1 | Burrard | Vancouver | BCHPA | 1962 | 1967 | Gas, oil | S | 4 | 150,000 | 600,000 |
| 2 | Port Mann | New Westminster | BCHPA | 1959 | 1959 | Oil | GT | 4 | 25,000 | 100,000 |
| 3 | Georgia | Chemainus | BCHPA | 1958 | 1959 | Oil | GT | 2 | 19,750 | 75,500 |
| | | | | | | | | 2 | 18,000 | |
| 4 | Powell River | Powell River | MBPR | 1948 | 1967 | Wood-waste, oil | S | 1 | 1,350 | 50,925 |
| | | | | | | | | 1 | 1,200 | |
| | | | | | | | | 1 | 10,500 | |
| | | | | | | | | 1 | 1,875 | |
| | | | | | | | | 1 | 36,000 | |
| 5 | Watson Island | Watson Island | CCC | 1950 | 1966 | Oil, wood-waste | S | 2 | 7,500 | 49,600 |
| | | | | | | | | 1 | 34,600 | |
| 6 | Harmac | Nanaimo | MBPR | 1954 | 1963 | Oil, wood-waste | S | 1 | 31,500 | 36,750 |
| | | | | | | | | 1 | 4,000 | |
| | | | | | | | | 1 | 1,250 | |
| 7 | Somass Mill | Port Alberni | MBPR | 1963 | - | Wood-waste | S | 1 | 26,000 | 26,000 |
| 8 | Prince George | Prince George | BCHPA | 1957 | 1963 | Oil | IC | 7 | 3,000 | 21,000 |
| 9 | Chetwynd | Chetwynd | BCHPA | 1958 | 1967 | Gas, oil | IC | 2 | 600 | 21,000 |
| | | | | | | | | 1 | 800 | |
| | | | | | | | | 1 | 1,000 | |
| | | | | | | | | 4 | 3,000 | |
| | | | | | | | GT | 1 | 6,000 | |
| 10 | Dawson Creek | Dawson Creek | BCHPA | 1953 | 1963 | Gas, oil | IC | 2 | 1,000 | 20,000 |
| | | | | | | | | 6 | 3,000 | |
| 11 | Port Alice | Port Alice | RC | 1942 | 1957 | Oil, wood-waste | S | 1 | 3,200 | 16,200 |
| | | | | | | | | 2 | 3,500 | |
| | | | | | | | | 1 | 6,000 | |
| 12 | Ocean Falls | Ocean Falls | CZC | 1930 | 1950 | Oil, wood-waste | S | 1 | 3,000 | 14,000 |
| | | | | | | | | 1 | 2,000 | |
| | | | | | | | | 1 | 4,000 | |
| | | | | | | | | 1 | 5,000 | |
| 13 | New Westminster | New Westminster | CZB | 1912 | 1950 | Wood-waste | S | 1 | 5,000 | 12,500 |
| | | | | | | | | 1 | 1,500 | |
| | | | | | | | | 1 | 6,000 | |
| 14 | Dry Dock | Prince Rupert | BCHPA | 1950 | 1967 | Oil | IC | 3 | 800 | 12,404 |
| | | | | | | | | 1 | 1,970 | |
| | | | | | | | | 1 | 2,034 | |
| | | | | | | | GT | 1 | 6,000 | |
| 15 | Eburne Sawmills | Vancouver | CFP | 1960 | 1960 | Wood-waste | S | 2 | 5,750 | 11,500 |

GT - Gas Turbine, IC - Internal Combustion, S - Steam

THERMAL

| No. | Station | Location | Owner | Year Installed | | Fuel | Type of Prime Mover | Generators | | |
|-----|-------------------------|----------------|-------|----------------|-------------|--------------------------|---------------------|-----------------------|-----------------------------------|--------------------|
| | | | | First Unit | Latest Unit | | | No. | Unit Capacity kw. | Total Capacity kw. |
| 16 | Youbou | Youbou | BCFP | 1929 | 1967 | Wood-waste | S | 1 2 1 1 | 800 750 2,000 5,000 | 9,300 |
| 17 | Kitimat | Kitimat | ALCAN | 1954 | 1959 | Oil | IC | 8 | 1,000 | 8,000 |
| 18 | Tahsis | Tahsis | TCL | 1956 | 1960 | Coal | S | 1 1 | 5,000 3,000 | 8,000 |
| 19 | Taylor | Taylor | PP | 1957 | 1957 | Gas | S | 3 | 2,500 | 7,500 |
| 20 | Golden | Golden | KHFP | 1966 | - | Coal | | 1 | 7,500 | 7,500 |
| 21 | Kelowna | Kelowna | SMS | 1950 | 1963 | Wood-waste, oil, coal | S | 1 1 1 1 | 750 2,000 3,500 1,000 | 7,250 |
| 22 | Woodfibre | Woodfibre | RC | 1948 | 1961 | Oil, wood-waste | S | 2 1 | 2,000 3,000 | 7,000 |
| 23 | Smithers | Smithers | BCHPA | 1951 | 1965 | Oil | IC | 2 1 2 1 | 560 760 1,000 3,000 | 6,880 |
| 24 | Port Moody | Port Moody | WCL | 1958 | 1965 | Coal | S | 1 1 | 3,500 3,000 | 6,500 |
| 25 | Mica Creek | Mica | BCHPA | 1965 | 1965 | Oil | IC | 1 2 1 | 675 1,000 2,500 | 5,175 |
| 26 | Port Mellon | Port Mellon | CFP | 1928 | 1947 | Oil | S | 1 1 1 | 500 1,500 3,000 | 5,000 |
| 27 | Semi-mobile unit No. 87 | | BCHPA | 1965 | - | Oil | IC | 1 | 5,000 | 5,000 |
| 28 | Vancouver | Vancouver | MBPR | 1949 | 1956 | Wood-waste | S | 1 1 | 750 4,000 | 4,750 |
| 29 | Kimberley (Stand-by) | Kimberley | CMSC | 1927 | 1928 | Coal | S | 3 | 1,500 | 4,500 |
| 30 | Victoria | Victoria | BCFP | 1940 | 1950 | Wood-waste | S | 1 1 | 3,000 1,500 | 4,500 |
| 31 | Giscome | Giscome | ELS | 1951 | 1956 | Wood-waste oil | S IC | 1 1 1 | 1,500 2,400 300 | 4,200 |
| 32 | Burns Lake | Burns Lake | BCHPA | 1954 | 1965 | Oil | IC | 1 4 2 | 800 250 1,136 | 4,072 |
| 33 | Elk Falls | Campbell River | EFC | 1964 | 1965 | Wood-waste | S | 1 1 | 3,255 800 | 4,055 |
| 34 | Hammond | Hammond | BCFP | 1928 | 1929 | Wood-waste | S | 2 | 2,000 | 4,000 |
| 35 | Cassiar | Cassiar | CAC | 1952 | 1966 | Oil | IC | 3 2 1 1 1 | 300 350 450 650 1,200 | 3,900 |

IC - Internal Combustion, S - Steam

THERMAL

| No. | Station | Location | Owner | Year Installed | | Fuel | Type of Prime Mover | Generators | | |
|-----|------------------|-------------------------|-------|----------------|-------------|------------|---------------------|-----------------------|-------------------------------------|--------------------|
| | | | | First Unit | Latest Unit | | | No. | Unit Capacity kw. | Total Capacity kw. |
| 36 | Chemainus | Chemainus | MBPR | 1925 | 1950 | Wood-waste | S | 1 1 | 3,000 750 | 3,750 |
| 37 | Vancouver | Vancouver | BCSRC | 1947 | 1960 | Gas, oil | S | 3 | 1,250 | 3,750 |
| 38 | Jedway | Jedway | JIOC | - | - | Oil | IC | 3 1 | 1,000 225 | 3,225 |
| 39 | Fort Nelson | Fort Nelson | BCHPA | 1960 | 1960 | Oil, gas | IC | 1 1 1 1 1 | 1,200 600 261 100 1,000 | 3,161 |
| 40 | Honeymoon Bay | Honeymoon Bay | WFI | 1949 | 1961 | Oil | S | 1 1 | 1,000 1,760 | 2,760 |
| 41 | Port Hardy | Port Hardy | BCHPA | 1959 | 1965 | Oil | IC | 1 1 2 1 | 600 500 300 1,000 | 2,700 |
| 42 | Celgar Pulp Mill | Celgar Pulp Mill | CCC | 1963 | - | | S | 1 | 2,500 | 2,500 |
| 43 | Mesachie Lake | Mesachie Lake | HLC | 1943 | 1949 | Wood-waste | S | 1 1 | 1,600 750 | 2,350 |
| 44 | Endako | Endako | EM | 1964 | 1964 | Oil | IC | 1 1 | 1,250 1,000 | 2,250 |
| 45 | Hazelton | Hazelton | BCHPA | 1965 | 1965 | Oil | IC | 3 2 1 | 200 600 250 | 2,050 |
| 46 | Revelstoke | Revelstoke | COR | 1926 | 1954 | Oil | IC | 2 1 1 | 300 400 1,000 | 2,000 |
| 47 | Hazelton | Hazelton | HSL | 1963 | 1965 | Oil | IC | 1 1 | 1,500 350 | 1,850 |
| 48 | Tide Camp | Stewart | GM | 1965 | 1965 | Oil | IC | 2 2 | 500 400 | 1,800 |
| 49 | McBride | McBride | BCHPA | 1951 | 1957 | Oil, gas | IC | 3 | 600 | 1,800 |
| 50 | Sandspit | Queen Charlotte Islands | BCHPA | 1962 | 1966 | Oil | IC | 2 1 | 600 500 | 1,700 |
| 51 | Vanderhoof | Vanderhoof | BCHPA | 1953 | 1955 | Oil | IC | 1 1 | 600 1,000 | 1,600 |
| 52 | Zeballos Mines | Zeballos Mines | ZIM | 1962 | 1964 | Oil | IC | 2 1 | 300 1,000 | 1,600 |
| 53 | Valemount | Valemount | BCHPA | 1962 | 1966 | Oil | IC | 3 1 | 350 500 | 1,550 |
| 54 | Prince George | Prince George | NP | 1967 | - | | | 1 | 1,500 | 1,500 |

Total capacity of plants 1,500 kw. and over (not listed above) 7,500

Total capacity of plants under 1,500 kw. 32,410

Total (all plants) 1,268,267

IC - Internal Combustion, - S - Steam

THERMAL

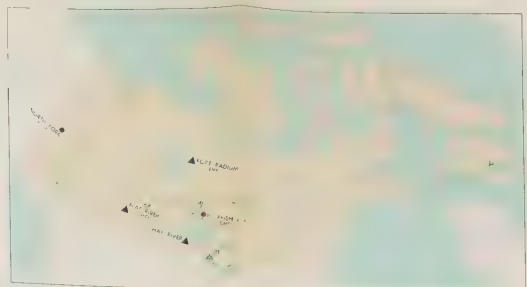
| No. | Station | Location | Owner | Year Installed | | Fuel | Type of Prime Mover | Generators | | |
|-----|---------|----------|-------|----------------|-------------|------|---------------------|------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | No. | Unit Capacity kw. | Total Capacity kw. |

Northwest Territories

| | | | | | | | | | | |
|---|---------------|---------------|------|------|------|-----|----|----------------------------|--|-------|
| 1 | Inuvik | Inuvik | NCPC | 1957 | 1967 | Oil | IC | 2 1 1 2 | 375 150 960 1,000 | 4,460 |
| | | | | | | | S | 1 | 600 | |
| 2 | Frobisher Bay | Frobisher Bay | NCPC | 1963 | 1966 | Oil | IC | 1 1 1 | 1,000 960 500 | 3,960 |
| | | | | | | | GT | 1 | 1,500 | |
| 3 | Port Radium | Port Radium | EMR | 1936 | 1953 | Oil | IC | 2 1 2 2 1 1 | 150 864 650 400 175 200 | 3,639 |
| | | | | | | | | | | |
| 4 | Hay River | Hay River | NU | 1959 | 1967 | Oil | IC | 3 1 1 1 1 | 350 300 650 500 250 | 2,750 |
| | | | | | | | | | | |
| 5 | Fort Smith | Fort Smith | NCPC | 1956 | 1962 | Oil | IC | 1 1 1 1 | 280 600 392 960 | 2,232 |
| | | | | | | | | | | |
| 6 | Tungsten | Tungsten | CTMC | 1962 | 1962 | Oil | IC | 3 | 500 | 1,500 |

OWNER CODE INDEX

| CODE | OWNER |
|------------|--|
| ACL..... | Anaconda Company (Canada) Limited |
| ALCAN..... | Aluminum Company of Canada Limited |
| BCFP..... | British Columbia Forest Products Limited |
| BCHPA..... | British Columbia Hydro and Power Authority |
| BCSRC..... | British Columbia Sugar Refining Company Limited |
| CAC..... | Cassiar Asbestos Corporation Limited |
| CCC..... | Columbia Cellulose Company Limited |
| CFP..... | Canadian Forest Products Limited |
| CMSC..... | Cominco Limited |
| CN..... | City of Nelson |
| COR..... | City of Revelstoke |
| CTMC..... | Canada Tungsten Mining Corporation Limited |
| CZB..... | Crown Zellerbach Building Materials Limited |
| CZC..... | Crown Zellerbach Canada Limited |
| EFC..... | Elk Falls Company Limited |
| ELS..... | Eagle Lake Sawmills Company Limited |
| EM..... | Endako Mines Limited |
| EMR..... | Eldorado Mining and Refining Limited |
| GM..... | Granduc Mines Limited |
| HLC..... | Hillcrest Lumber Company Limited |
| HSL..... | Hazelton Sawmills Limited |
| JIOC..... | Jedway Iron Ore Company Limited |
| KHFP..... | Kicking Horse Forest Products Limited |
| MBPR..... | MacMillan Bloedel and Powell River Limited |
| NCPC..... | Northern Canada Power Commission |
| NP..... | Northwood Pulp Company |
| PP..... | Pacific Petroleum Company Limited Transmission Company (now West Coast) |
| RC..... | Rayonier Canada (BC) Limited |
| SMS..... | S. M. Simpson Limited |
| TCL..... | Tahsis Company Limited |
| WCL..... | Weldwood of Canada Limited |
| WFI..... | Western Forest Industries Limited |
| WKPL..... | West Kootenay Power and Light Company Limited |
| WM..... | Western Mines Limited |
| YCCG..... | Yukon Consolidated Gold Corporation |
| ZIM..... | Zeballos Iron Mines Limited |



DEPARTMENT OF ENERGY, MINES AND REVENUES
INLAND WATERS BRANCH

BRITISH COLUMBIA MAIN ELECTRIC TRANSMISSION SYSTEMS AND PRINCIPAL POWER GENERATING DEVELOPMENTS

SCALE OF MILES

LEGEND

GENERATING STATIONS

Map symbols for generating stations:
● Existing
○ Proposed

TRANSMISSION LINES

Map symbols for transmission lines:
— Existing
--- Proposed

OWNERSHIP

Map symbols for ownership:
— Provincial
— Federal
— Private

DECEMBER 1967



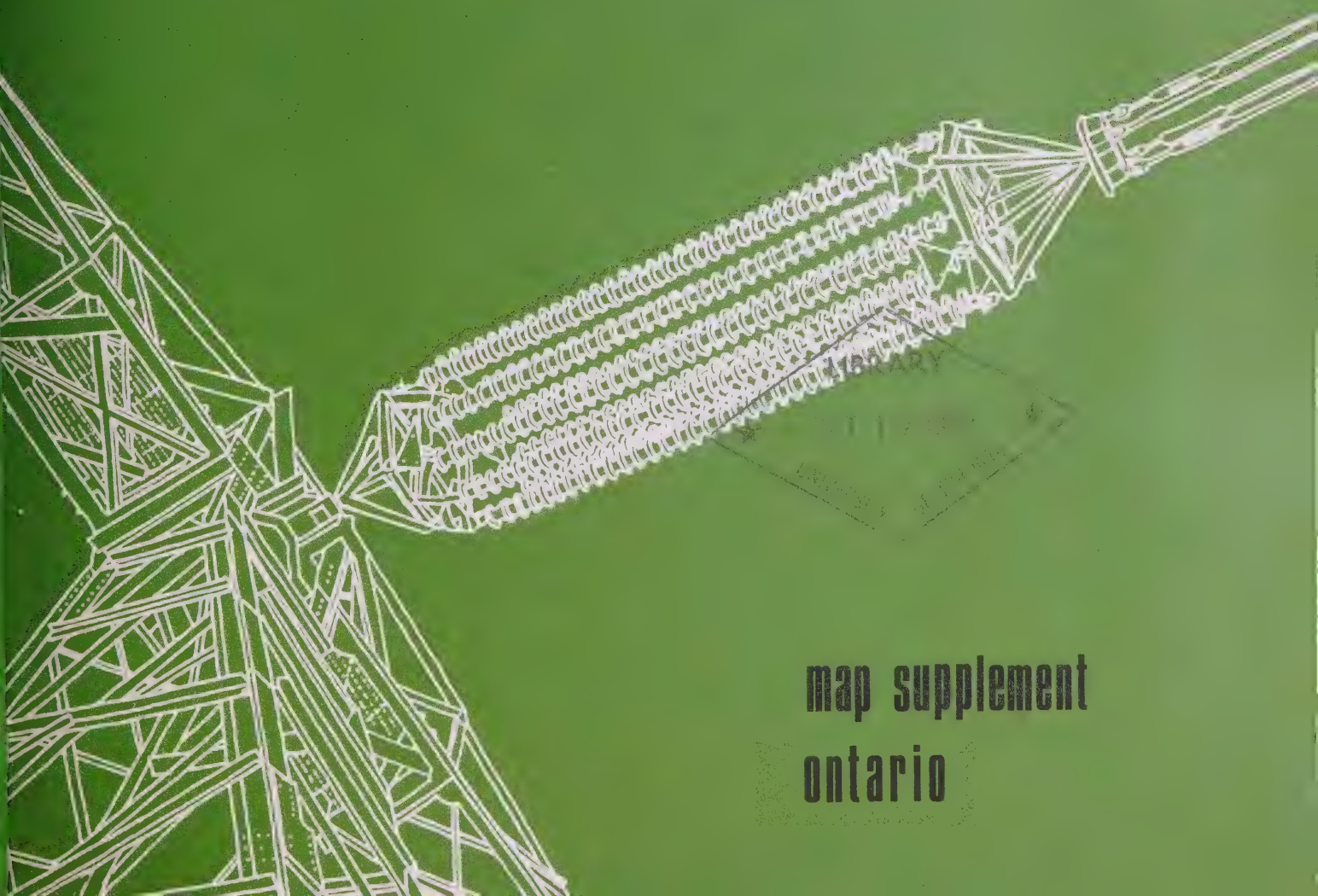
Inland Waters Branch
DEPARTMENT OF ENERGY, MINES AND RESOURCES
OTTAWA, CANADA

CAI MT 51

S22

electric power in canada

1997



map supplement
ontario



CHI MT 81
325

TRANSMISSION
AND
GENERATING FACILITIES

Ontario

INLAND WATERS BRANCH
DEPARTMENT OF ENERGY, MINES AND RESOURCES

ROGER DUHAMEL, F.R.S.C.
Queen's Printer and Controller of Stationery
Ottawa, 1968

Cat. No.: M23—108/1967—3

HYDRO

HYDRO

| No. | Development | River | Owner | Year Installed | | Rated Head ft. | No. of Units | Turbines | | Generators | |
|-----|---|---------------|-------|----------------|-------------|--------------------------|------------------|--------------------------------------|--------------------|--------------------------------------|--------------------|
| | | | | First Unit | Latest Unit | | | Unit Capacity hp. | Total Capacity hp. | Unit Capacity kw. | Total Capacity kw. |
| 1 | Sir Adam Beck-Niagara: Generating Station No. 1 | Niagara | HEPCO | 1922 | 1930 | 305 294 294 294 | 5 2 1 2 | 55,000 58,000 58,000 58,000 | 565,000 | 36,000 43,200 44,000 46,750 | 403,900 |
| | Generating Station No. 2 | | | 1954 | 1958 | 292 | 16 | 105,000 | 1,680,000 | 76,475 | 1,223,600 |
| | Pumping-Generating Station | | | 1957 | 1958 | 85 | 6 | 46,000 | 276,000 | 29,450 | 176,700 |
| 2 | Robert H. Saunders - St. Lawrence | St. Lawrence | HEPCO | 1958 | 1959 | 81 | 16 | 75,000 | 1,200,000 | 57,000 | 912,000 |
| 3 | Des Joachims | Ottawa | HEPCO | 1950 | 1951 | 130 | 8 | 62,000 | 496,000 | 45,000 | 360,000 |
| 4 | Abitibi Canyon | Abitibi | HEPCO | 1933 | 1959 | 237 | 3 2 | 66,000 66,000 | 330,000 | 41,225 43,200 | 210,075 |
| 5 | Otto Holden | Ottawa | HEPCO | 1952 | 1953 | 77 | 4 4 | 35,000 33,000 | 272,000 | 25,650 25,650 | 205,200 |
| 6 | Otter Rapids | Abitibi | HEPCO | 1961 | 1963 | 107 | 4 | 60,000 | 240,000 | 43,700 | 174,800 |
| 7 | Mountain Chute | Madawaska | HEPCO | 1967 | 1967 | 151 | 2 | 112,000 | 224,000 | 69,700 | 139,400 |
| 8 | Ontario Power | Niagara | HEPCO | 1905 | 1919 | - | 3 4 7 1 | 11,700 11,700 13,400 20,000 | 195,700 | 7,500 8,770 8,775 13,500 | 132,505 |
| 9 | Harmon | Mattagami | HEPCO | 1965 | 1965 | 101 | 2 | 94,000 | 188,000 | 64,600 | 129,200 |
| 10 | Pine Portage | Nipigon | HEPCO | 1950 | 1954 | 105 | 2 2 | 41,000 45,000 | 172,000 | 29,700 34,650 | 128,700 |
| 11 | Kipling | Mattagami | HEPCO | 1966 | 1966 | 102 | 2 | 94,000 | 188,000 | 62,700 | 125,400 |
| 12 | Chenaux | Ottawa | HEPCO | 1950 | 1951 | 40 | 8 | 21,000 | 168,000 | 15,300 | 122,400 |
| 13 | Little Long | Mattagami | HEPCO | 1963 | 1963 | 90 | 2 | 84,000 | 168,000 | 60,800 | 121,600 |
| 14 | DeCew Falls No. 2 | Welland Canal | HEPCO | 1943 | 1947 | 280 | 2 | 75,000 | 150,000 | 57,600 | 115,200 |
| 15 | Rankine | Niagara | CNPC | 1904 | 1924 | 133 | 5 2 3 1 | 10,000 12,500 10,750 12,000 | 119,250 | 7,500 9,375 9,375 10,300 | 94,675 |
| 16 | Toronto Power | Niagara | HEPCO | 1906 | 1915 | - | 7 4 | 15,000 13,000 | 157,000 | 9,000 7,200 | 91,800 |
| 17 | Chats Falls | Ottawa | HEPCO | 1931 | 1931 | 53 | 4 | 28,000 | 112,000 | 22,325 | 89,300 |
| 18 | Caribou Falls | English | HEPCO | 1958 | 1958 | 58 | 3 | 34,000 | 102,000 | 25,650 | 76,950 |

Ontario

HYDRO

| No. | Development | River | Owner | Year Installed | | Rated Head ft. | No. of Units | Turbines | | Generators | |
|------------------|-------------------|----------------------------|-------|----------------|-------------|----------------|--------------|-------------------|--------------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | Unit Capacity hp. | Total Capacity hp. | Unit Capacity kw. | Total Capacity kw. |
| ONTARIO (Cont'd) | | | | | | | | | | | |
| 19 | Cameron Falls | Nipigon | HEPCO | 1920 | 1958 | 72 | 2 | 12,500 | 100,000 | 9,540 | 72,000 |
| | | | | | | 72 | 4 | 12,500 | | 8,480 | |
| | | | | | | 73 | 1 | 25,000 | | 19,000 | |
| 20 | Manitou Falls | English | HEPCO | 1956 | 1958 | 54 | 5 | 18,500 | 92,500 | 14,400 | 72,000 |
| 21 | Alexander | Nipigon | HEPCO | 1930 | 1958 | 60 | 3 | 18,000 | 92,000 | 12,750 | 65,250 |
| | | | | | | 58 | 2 | 19,000 | | 13,500 | |
| 22 | Whitedog Falls | Winnipeg | HEPCO | 1958 | 1958 | 50 | 3 | 27,000 | 81,000 | 21,600 | 64,800 |
| 23 | Stewartville | Madawaska | HEPCO | 1948 | 1948 | 148 | 3 | 28,000 | 84,000 | 20,400 | 61,200 |
| 24 | Smoky Falls | Mattagmi | SFPPC | 1928 | 1931 | 113 | 4 | 18,750 | 75,000 | 13,200 | 52,800 |
| 25 | Silver Falls | Kaministikwia | HEPCO | 1959 | - | 330 | 1 | 60,000 | 60,000 | 45,000 | 45,000 |
| 26 | Geo. W. Rayner | Mississagi | HEPCO | 1950 | 1950 | 210 | 2 | 29,000 | 58,000 | 21,150 | 42,300 |
| 27 | Barrett Chute | Madawaska | HEPCO | 1942 | 1942 | 150 | 2 | 28,000 | 56,000 | 20,400 | 40,800 |
| 28 | Upper Falls | Montreal | GLPC | 1937 | 1957 | 232 | 2 | 12,600 | 56,200 | 9,000 | 40,500 |
| | | | | | | | 1 | 31,000 | | 22,500 | |
| 29 | Aguasabon | Aguasabon | HEPCO | 1948 | 1948 | 290 | 2 | 27,500 | 55,000 | 20,250 | 40,500 |
| 30 | Red Rock Falls | Mississagi | HEPCO | 1960 | 1961 | 93 | 2 | 26,500 | 53,000 | 20,250 | 40,500 |
| 31 | Island Falls | Abitibi | APPC | 1924 | 1925 | 63 | 4 | 12,000 | 48,000 | 9,600 | 38,400 |
| 32 | DeCew Falls No. 1 | Welland Canal | HEPCO | 1901 | 1913 | - | 1 | 3,000 | 45,000 | 2,500 | 38,400 |
| | | | | | | | 2 | 3,000 | | 2,000 | |
| | | | | | | | 1 | 6,000 | | 4,800 | |
| | | | | | | | 1 | 6,000 | | 5,000 | |
| | | | | | | | 2 | 6,000 | | 5,300 | |
| | | | | | | | 1 | 6,000 | | 5,600 | |
| | | | | | | | 1 | 6,000 | | 5,900 | |
| 33 | Kakabeka Falls | Kaministikwia | HEPCO | 1906 | 1914 | 178 | 3 | 7,500 | 35,000 | 5,400 | 24,170 |
| | | | | | | | 1 | 12,500 | | 7,970 | |
| 34 | High Falls | Michipicoten | GLPC | 1930 | 1950 | 147 | 2 | 11,000 | 35,200 | 6,750 | 23,175 |
| | | | | | | | 1 | 13,200 | | 9,675 | |
| 35 | Big Eddy | Spanish | HCL | 1929 | 1929 | 90 | 3 | 9,400 | 28,200 | 7,200 | 21,600 |
| 36 | Sault Ste. Marie | St. Mary | GLPC | 1918 | 1931 | 18.5 | 24 | 900 | 31,000 | 650 | 21,520 |
| | | | | | | | 3 | 2,400 | | 1,440 | |
| | | | | | | | 1 | 2,200 | | 1,600 | |
| 37 | Iroquois Falls | Abitibi Lake & Black River | APPC | 1949 | 1949 | 43 | 1 | 1,800 | 31,000 | 1,200 | 21,485 |
| | | | | | | | 1 | 1,800 | | 1,280 | |
| | | | | | | | 1 | 2,200 | | 1,200 | |
| | | | | | | | 6 | 2,200 | | 1,280 | |
| | | | | | | | 5 | 2,400 | | 2,025 | |
| 38 | Twin Falls | Abitibi | APPC | 1921 | 1925 | 57.5 | 5 | 6,000 | 30,000 | 4,050 | 20,250 |
| 39 | Gartshore | Montreal | GLPC | 1958 | - | 112 | 1 | 30,300 | 30,300 | 20,000 | 20,000 |

HYDRO

| No. | Development | River | Owner | Year Installed | | Rated Head ft. | No. of Units | Turbines | | Generators | |
|------------------|-----------------------|------------------------|-------|----------------|-------------|----------------|----------------------------|--|--------------------|--|--------------------|
| | | | | First Unit | Latest Unit | | | Unit Capacity hp. | Total Capacity hp. | Unit Capacity kw. | Total Capacity kw. |
| ONTARIO (Cont'd) | | | | | | | | | | | |
| 40 | Hollingsworth Falls | Michipicoten | GLPC | 1959 | - | 108 | 1 | 30,300 | 30,300 | 20,000 | 20,000 |
| 41 | Ear Falls | English | HEPCO | 1930 | 1948 | 36 | 1 1 2 | 5,000 5,000 7,500 | 25,000 | 4,000 3,825 5,400 | 18,625 |
| 42 | High Falls | Spanish | HCL | 1905 | 1966 | 85 | 4 1 | 4,000 7,500 | 23,500 | 3,000 5,550 | 17,550 |
| 43 | Norman | Winnipeg (West Branch) | OMPP | 1925 | 1925 | 22 | 5 | 3,400 | 17,000 | 3,300 | 16,500 |
| 44 | Lower Falls | Montreal | GLPC | 1938 | 1942 | 185 | 2 | 10,900 | 21,800 | 8,100 | 16,200 |
| 45 | Hogg | Montreal | GLPC | 1965 | - | 77 | 1 | 21,750 | 21,750 | 15,000 | 15,000 |
| 46 | Espanola | Spanish | KVPC | 1906 | 1946 | 64 64 64 | 4 1 1 | 1,675 10,000 2,350 | 19,050 | 1,250 7,500 1,750 | 14,250 |
| 47 | Scott Falls | Michipicoten | GLPC | 1952 | 1952 | 70 | 2 | 10,000 | 20,000 | 6,800 | 13,600 |
| 48 | Fort Frances | Rainy | OMPP | 1955 | 1955 | 28 | 8 | 2,000 | 16,000 | 1,600 | 12,800 |
| 49 | Welland Canal | Welland Canal | STLSA | 1932 | 1932 | 160 | 3 | 5,000 | 15,000 | 4,000 | 12,000 |
| 50 | Wawaitin | Mattagami | HEPCO | 1912 | 1918 | 125 | 2 2 | 3,450 4,000 | 14,900 | 2,500 3,375 | 11,750 |
| 51 | Kenora | Winnipeg | OMPP | 1923 | 1924 | 22 | 4 6 | 1,200 1,200 | 12,000 | 1,000 1,250 | 11,500 |
| 52 | Heely Falls | Trent | HEPCO | 1913 | 1919 | 73 | 2 1 | 5,600 5,600 | 16,800 | 3,750 3,000 | 10,500 |
| 53 | McPhail Falls | Michipicoten | GLPC | 1954 | 1954 | 48 | 2 | 7,500 | 15,000 | 5,000 | 10,000 |
| 54 | Upper Notch | Montreal | HEPCO | 1930 | 1930 | 48 | 2 | 6,500 | 13,000 | 4,800 | 9,600 |
| 55 | Calm Lake | Seine | OMPP | 1928 | 1928 | 82 | 2 | 6,400 | 12,800 | 4,675 | 9,350 |
| 56 | Sturgeon Falls | Sturgeon | APPC | 1902 | 1964 | 40.5 | 1 1 1 1 1 1 | 2,500 1,000 1,500 1,500 1,500 1,000 | 9,000 | 1,800 1,685 1,350 1,685 1,415 1,415 | 9,350 |
| 57 | Eddy | Ottawa | EBEC | 1909 | 1912 | 38 | 2 1 | 4,650 4,650 | 13,950 | 3,000 3,300 | 9,300 |
| 58 | Crystal Falls | Sturgeon | HEPCO | 1921 | 1921 | 33 | 4 | 2,600 | 10,400 | 2,020 | 8,080 |
| 59 | Ranney Falls | Trent | HEPCO | 1922 | 1926 | - | 1 2 | 1,000 5,000 | 11,000 | 720 3,600 | 7,920 |
| 60 | Chaudière Falls No. 4 | Ottawa | OHEC | 1931 | 1931 | 38 | 2 | 5,400 | 10,800 | 3,960 | 7,920 |

HYDRO

| No. | Development | River | Owner | Year Installed | | Rated Head ft. | No. of Units | Turbines | | Generators | |
|------------------|-----------------------|---------------|-------|----------------|-------------|----------------|--------------|-------------------|--------------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | Unit Capacity hp. | Total Capacity hp. | Unit Capacity kw. | Total Capacity kw. |
| | | | | | | | | | | | |
| ONTARIO (Cont'd) | | | | | | | | | | | |
| 61 | Big Eddy | Muskoka | HEPCO | 1941 | 1941 | 38 | 2 | 5,280 | 10,560 | 3,825 | 7,650 |
| 62 | Ragged Rapids | Muskoka | HEPCO | 1938 | 1938 | 38 | 2 | 5,200 | 10,400 | 3,825 | 7,650 |
| 63 | Sturgeon Falls | Seine | OMPP | 1927 | 1927 | 64 | 2 | 5,000 | 10,000 | 3,825 | 7,650 |
| 64 | Matabitchuan | Matabitchuan | HEPCO | 1910 | 1910 | 305 | 4 | 3,300 | 13,200 | 1,690 | 6,760 |
| 65 | Swift Rapids | Severn | OWLP | 1916 | 1966 | 47 | 1 | 2,120 | | 1,350 | |
| | | | | | | | 2 | 3,500 | 9,120 | 2,700 | 6,750 |
| 66 | Lower Sturgeon | Mattagami | HEPCO | 1923 | 1923 | 42 | 2 | 4,000 | 8,000 | 3,200 | 6,400 |
| 67 | Smooth Rock | Mattagami | APPC | 1916 | 1916 | 45 | 2 | 4,500 | 9,000 | 3,125 | 6,250 |
| 68 | Eugenia | Beaver | HEPCO | 1915 | 1920 | 550 | 2 | 2,250 | | 1,200 | |
| | | | | | | | 1 | 4,000 | 8,500 | 2,400 | 4,800 |
| 69 | Meyersburg | Trent | HEPCO | 1924 | 1924 | 32 | 3 | 2,200 | 6,600 | 1,600 | 4,800 |
| 70 | Nairn | Spanish | HCL | 1917 | 1919 | 30 | 3 | 2,600 | 7,800 | 1,500 | 4,500 |
| 71 | Chaudière Falls No. 2 | Ottawa | OHEC | 1909 | 1936 | 40 | 3 | 2,300 | 6,900 | 1,462 | 4,386 |
| 72 | Peterborough | Otonabee | PHPC | 1902 | 1950 | 27 | 1 | 2,300 | | 1,200 | |
| | | | | | | | 1 | 2,550 | | 1,500 | |
| | | | | | | | 1 | 2,140 | 6,990 | 1,400 | 4,100 |
| 73 | Coniston | Wanapitei | HEPCO | 1905 | 1915 | 53 | 1 | 1,200 | | 720 | |
| | | | | | | | 1 | 1,600 | | 1,125 | |
| | | | | | | | 1 | 3,500 | 6,300 | 2,250 | 4,095 |
| 74 | Stinson | Wanapitei | HEPCO | 1925 | 1925 | - | 2 | 3,500 | 7,000 | 2,000 | 4,000 |
| 75 | Calabogie | Madawaska | HEPCO | 1917 | 1917 | 30 | 2 | 3,000 | 6,000 | 2,000 | 4,000 |
| 76 | Big Chute | Severn | HEPCO | 1911 | 1919 | 56 | 3 | 1,300 | | 900 | |
| | | | | | | | 1 | 2,300 | 6,200 | 1,280 | 3,980 |
| 77 | South Falls | South Muskoka | HEPCO | 1916 | 1925 | 107 | 1 | 1,000 | | 635 | |
| | | | | | | | 2 | 2,200 | 5,400 | 1,600 | 3,835 |
| 78 | Wabagishik | Vermilion | HCL | 1912 | 1935 | 70 | 1 | 2,700 | | 1,600 | |
| | | | | | | | 1 | 2,700 | 5,400 | 2,140 | 3,740 |
| 79 | Minden | Gull | OWLP | 1935 | 1935 | 66 | 2 | 2,600 | 5,200 | 1,800 | 3,600 |
| 80 | Sandy Falls | Mattagami | HEPCO | 1911 | 1916 | 32 | 2 | 1,200 | | 950 | |
| | | | | | | 34 | 1 | 2,500 | 4,900 | 1,595 | 3,495 |
| 81 | Hagues Reach | Trent | HEPCO | 1925 | 1925 | 22.5 | 3 | 1,600 | 4,800 | 1,120 | 3,360 |
| 82 | Indian Chute | Montreal | HEPCO | 1923 | 1924 | 45 | 2 | 2,250 | 4,500 | 1,620 | 3,240 |
| 83 | Sidney | Trent | HEPCO | 1911 | 1911 | 20 | 4 | 1,400 | 5,600 | 795 | 3,180 |

HYDRO

| No. | Development | River | Owner | Year Installed | | Rated Head ft. | No. of Units | Turbines | | Generators | |
|---|-----------------|---------------|-------|----------------|-------------|----------------|--------------|-------------------|--------------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | Unit Capacity hp. | Total Capacity hp. | Unit Capacity kw. | Total Capacity kw. |
| ONTARIO (Cont'd) | | | | | | | | | | | |
| 84 | Seymour | Trent | HEPCO | 1909 | 1911 | 23 | 4 | 1,100 | | 600 | |
| | | | | | | | 1 | 1,100 | 5,500 | 750 | 3,150 |
| 85 | Mathias | Muskoka | OWLP | 1950 | - | 43 | 1 | 3,770 | 3,770 | 2,812 | 2,812 |
| 86 | Hound Chute | Montreal | HEPCO | 1910 | 1911 | - | 4 | 1,335 | 5,340 | 700 | 2,800 |
| 87 | Kapuskasing | Kapuskasing | SFPPC | 1923 | - | 30 | 1 | 2,500 | 2,500 | 2,750 | 2,750 |
| 88 | Frankford | Trent | HEPCO | 1913 | 1913 | 18 | 4 | 1,200 | 4,800 | 650 | 2,600 |
| 89 | Jones Falls | Rideau Canal | GELW | 1948 | 1950 | 65 | 1 | 250 | | 180 | |
| | | | | | | 58 | 2 | 1,037 | | 800 | |
| | | | | | | 58 | 1 | 1,500 | 3,824 | 800 | 2,580 |
| 90 | Sills Island | Trent | HEPCO | 1926 | 1926 | 14 | 1 | 1,000 | | 1,275 | |
| | | | | | | | 1 | 1,000 | 2,000 | 1,020 | 2,295 |
| 91 | McVittie | Wanapitei | HEPCO | 1912 | 1912 | 42 | 2 | 1,800 | 3,600 | 1,125 | 2,250 |
| 92 | Nassau | Otonabee | CGEC | 1902 | 1926 | 16 | 1 | 1,600 | | 1,500 | |
| | | | | | | | 2 | 700 | 3,000 | 360 | 2,220 |
| 93 | High Falls | Mississippi | HEPCO | 1920 | 1920 | 82 | 3 | 1,240 | 3,720 | 700 | 2,100 |
| 94 | Nipissing | South | HEPCO | 1909 | 1909 | - | 1 | 1,250 | | 1,000 | |
| | | | | | | | 1 | 1,250 | 2,500 | 1,050 | 2,050 |
| 95 | Lakefield | Otonabee | HEPCO | 1928 | - | 16 | 1 | 3,100 | 3,100 | 2,000 | 2,000 |
| 96 | Fountain Falls | Montreal | HEPCO | 1914 | 1914 | 30 | 2 | 1,500 | 3,000 | 1,000 | 2,000 |
| 97 | Rideau Falls | Rideau | DPW | 1909 | 1909 | 47 | 2 | 1,500 | 3,000 | 1,000 | 2,000 |
| 98 | Crow Bay | Trent Canal | CPUC | 1909 | 1911 | - | 1 | 1,470 | | 1,125 | |
| | | | | | | | 1 | 1,000 | 2,470 | 850 | 1,975 |
| 99 | Auburn | Otonabee | HEPCO | 1911 | 1912 | 18 | 3 | 950 | 2,850 | 625 | 1,875 |
| 100 | Current River | Current | PAPUC | 1902 | 1906 | 80 | 2 | 450 | | 350 | |
| | | | | | | | 1 | 1,200 | 2,100 | 1,100 | 1,800 |
| 101 | Eagle | Eagle | DPC | 1928 | - | 37 | 1 | 2,000 | 2,000 | 1,760 | 1,760 |
| 102 | Trethewey Falls | South Muskoka | HEPCO | 1929 | - | 35 | 1 | 2,300 | 2,300 | 1,600 | 1,600 |
| Total capacity of plants under 1,500 kw. | | | | | | | | | 31,131 | | 21,949 |
| Total capacity of turbines connected directly to mechanical equipment | | | | | | | | | 27,375 | | |
| Total (all plants) | | | | | | | | | 8,816,650 | | 6,338,637 |

THERMAL

THERMAL

| No. | Station | Location | Owner | Year Installed | | Fuel | Type of Prime Mover | Generators | | |
|-----|----------------------------------|------------------|-------|----------------|-------------|-----------------------|---------------------|------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | No. | Unit Capacity kw. | Total Capacity kw. |
| 1 | Lakeview | Toronto | HEPCO | 1961 | 1966 | Coal | S | 5 | 300,000 | |
| | | | | | | Oil | CT | 4 | 7,500 | 1,530,000 |
| 2 | Richard L. Hearn | Toronto | HEPCO | 1951 | 1966 | Coal | S | 4 | 100,000 | |
| | | | | | | | | 4 | 200,000 | |
| | | | | | | Oil | CT | 4 | 7,500 | 1,230,000 |
| 3 | J. Clark Keith | Windsor | HEPCO | 1951 | 1967 | Coal | S | 4 | 66,000 | |
| | | | | | | Oil | CT | 1 | 7,500 | 271,500 |
| 4 | Douglas Point | Kincardine | HEPCO | 1966 | - | Uranium dioxide | S | 1 | 200,000 | 200,000 |
| 5 | Thunder Bay | Fort William | HEPCO | 1963 | - | Coal | S | 1 | 100,000 | 100,000 |
| 6 | Detweiler | Kitchener | HEPCO | 1967 | 1967 | Oil | CT | 4 | 16,320 | 65,280 |
| 7 | A. W. Manby | Toronto | HEPCO | 1965 | 1966 | Oil | CT | 4 | 16,320 | 65,280 |
| 8 | Windsor | Windsor | FMCC | 1936 | 1952 | Coal | S | 1 | 10,000 | |
| | | | | | | | | 1 | 4,000 | |
| | | | | | | | | 2 | 25,000 | 64,000 |
| 9 | Sarnia-Scott | Sarnia | HEPCO | 1965 | 1966 | Oil | CT | 2 | 15,000 | |
| | | | | | | | | 2 | 16,320 | 62,640 |
| 10 | Sarnia | Sarnia | PC | 1943 | 1956 | Coal, oil | S | 1 | 10,000 | |
| | | | | | | | | 1 | 5,000 | |
| | | | | | | | | 1 | 4,000 | |
| | | | | | | | | 1 | 13,200 | 32,280 |
| 11 | Lambton | Sarnia | HEPCO | 1967 | 1967 | Oil | CT | 4 | 7,500 | 30,000 |
| 12 | Sault Ste. Marie | Sault Ste. Marie | ASC | 1942 | 1963 | Gas, oil coal | S | 2 | 12,500 | |
| | | | | | | | | 2 | 625 | 26,250 |
| 13 | Fort William | Fort William | GLPAC | 1928 | - | Gas, coal, wood-waste | S | 1 | 4,000 | |
| | | | | | | | | 1 | 5,000 | |
| | | | | | | | | 1 | 17,100 | 26,100 |
| 14 | Kapuskasing | Kapuskasing | SFPPC | 1928 | 1958 | Coal, gas, wood-waste | S | 2 | 650 | |
| | | | | | | | | 1 | 12,500 | |
| | | | | | | | | 1 | 9,100 | 22,900 |
| 15 | Nuclear Power Demonstration Unit | Rolphton | AECL | 1962 | - | Uranium dioxide | S | 1 | 20,000 | 20,000 |
| 16 | Marathon | Marathon | ACC | 1946 | 1948 | Coal, oil | S | 1 | 7,500 | |
| | | | | | | | | 2 | 4,000 | 15,500 |
| 17 | Amherstburg | Amherstburg | BRMC | 1938 | 1957 | Coal | S | 1 | 2,500 | |
| | | | | | | | | 1 | 4,700 | |
| | | | | | | | | 1 | 3,750 | 10,950 |
| 18 | Hamilton | Hamilton | SCC | 1948 | 1959 | Coke-oven gas, oil | S | 1 | 4,000 | |
| | | | | | | | | 1 | 6,000 | 10,000 |

CT - Combustion Turbine, S - Steam

THERMAL

| No. | Station | Location | Owner | Year Installed | | Fuel | Type of Prime Mover | Generators | | |
|-----|---------|----------|-------|----------------|-------------|------|---------------------|------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | No. | Unit Capacity kw. | Total Capacity kw. |

ONTARIO (Cont'd)

| | | | | | | | | | | |
|----|---------------|--------------|------|------|------|-----------------------|----|-------------|-------------------------|-------|
| 19 | Thorold | Thorold | OPC | 1937 | 1937 | Coal, gas | S | 2 | 4,000 | 8,000 |
| 20 | Dryden | Dryden | DPC | 1954 | - | Coal, gas | S | 1 | 6,000 | 6,000 |
| 21 | Station No. 6 | Gananoque | GELW | 1959 | 1967 | Gas | IC | 2 1 1 | 1,360 1,200 1,250 | 5,170 |
| 22 | Walkerville | Walkerville | HWS | 1924 | 1955 | Coal | S | 2 1 1 | 1,000 2,500 625 | 5,125 |
| 23 | Strathcona | Strathcona | SP | 1955 | 1955 | Coal | S | 2 | 1,655 | 3,310 |
| 24 | Chatham | Chatham | CDSC | 1946 | 1946 | Coal | S | 2 | 1,500 | 3,000 |
| 25 | Fort Frances | Fort Frances | OMPP | 1927 | - | Coal | S | 1 | 3,000 | 3,000 |
| 26 | Blind River | Blind River | MFLC | 1927 | 1927 | Wood-waste | S | 1 1 | 750 2,000 | 2,750 |
| 27 | Toronto | Toronto | CDSC | 1959 | - | Coal, gas, oil | S | 1 | 2,500 | 2,500 |
| 28 | Toronto | Toronto | CCCC | 1937 | - | Coal, oil | S | 1 | 2,500 | 2,500 |
| 29 | Ottawa | Ottawa | EBEC | 1923 | - | Coal | S | 1 | 2,500 | 2,500 |
| 30 | Port Arthur | Port Arthur | APPC | 1928 | - | Coal, wood-waste, gas | S | 1 | 2,500 | 2,500 |
| 31 | New Toronto | New Toronto | GTR | 1940 | - | Coal, oil | S | 1 | 2,500 | 2,500 |
| 32 | Pembroke | Pembroke | PELC | 1929 | 1949 | Oil | IC | 1 2 | 933 671 | 2,275 |
| 33 | Orillia | Orillia | OWLP | 1947 | 1948 | Oil | IC | 1 1 | 1,000 1,136 | 2,136 |
| 34 | Cardinal | Cardinal | CSC | 1945 | 1964 | Oil | IC | 3 1 1 | 320 640 500 | 2,100 |
| 35 | Peterborough | Peterborough | CGEC | 1930 | 1949 | Coal | S | 1 | 2,000 | 2,000 |
| 36 | Espanola | Espanola | KVPC | 1947 | 1951 | Coal | S | 1 | 2,000 | 2,000 |

Total capacity of plants 1,500 kw. and over (not listed above)

99,250

Total capacity of plants under 1,500 kw.

10,500

Total (all plants)

3,951,796

IC - Internal Combustion, S - Steam

OWNER CODE INDEX

| CODE | OWNER |
|------------|--|
| ACC..... | American Can of Canada Limited |
| AECL..... | Atomic Energy of Canada Limited |
| APPC..... | Abitibi Power and Paper Company Limited |
| ASC..... | Algoma Steel Corporation Limited |
| BRMC..... | Brunner Mond Canada Limited |
| CCCC..... | Continental Can Company of Canada Limited |
| CDSC..... | Canada and Dominion Sugar Company Limited |
| CGEC..... | Canadian General Electric Company Limited |
| CNPC..... | Canadian Niagara Power Company Limited |
| CPUC..... | Campbellford Public Utilities Commission |
| CSC..... | Canada Starch Company Limited |
| DPC..... | Dryden Paper Company Limited |
| DPW..... | Department of Public Works, Government of Canada |
| EBEC..... | E. B. Eddy Company |
| FMCC..... | Ford Motor Company of Canada Limited |
| GELW..... | Gananoque Electric Light and Water Supply Co. Ltd. |
| GLPAC..... | Great Lakes Paper Company |
| GLPC..... | Great Lakes Power Corporation Limited |
| GTR..... | Goodyear Tire and Rubber Company Limited |
| HCL..... | Huronian Company Limited |
| HEPCO..... | Hydro-Electric Power Commission of Ontario |
| HWS..... | Hiram Walker and Sons Limited |
| KVPC..... | Kalamazoo Vegetable Parchment Company Limited |
| MFLC..... | McFadden Lumber Co. (Domtar) |
| OHEC..... | Ottawa Hydro-Electric Commission |
| OMPP..... | Ontario-Minnesota Pulp and Paper Company Limited |
| OPC..... | Ontario Paper Company |
| OWLP..... | Orillia Water Light and Power Commission |
| PAPUC..... | Port Arthur Public Utilities Commission |
| PC..... | Polymer Corporation |
| PELC..... | Pembroke Electric Light Company Limited |
| PHPC..... | Peterborough Hydraulic Power Company |
| SCC..... | Steel Company of Canada Limited |
| SFPPC..... | Spruce Falls Power and Paper Company |
| SP..... | Strathcona Paper Company Limited |
| STLSA..... | St. Lawrence Seaway Authority |

DEPARTMENT OF ENERGY, MINES AND RESOURCES
INLAND WATERS BRANCH
OTTAWA

ONTARIO

MAIN ELECTRIC TRANSMISSION SYSTEMS AND PRINCIPAL POWER GENERATING DEVELOPMENTS

SCALE OF MILES
0 10 20 30 40 50

LEGEND

EXISTING

●

▲

○

UNDER CONSTRUCTION

○

▲

○

GENERATING STATIONS

Hydro-electric } Stations less than 1500 kw. omitted
Thermal-electric }
Sub-station } Abbreviations refer to company codes

TRANSMISSION LINES

Nominal operating voltages indicated in kilovolts
(240/132-kv number represents number of conductors when there is more than one; the second number represents the phase design or calculated voltage.)

230 kv circuit

115 kv circuit

69 kv circuit

Frequency other than 60 cycles

Underground and submarine cable

Connection between companies

— — — — —

— — — — —

— — — — —

— — — — —

— — — — —

— — — — —

— — — — —

OWNERSHIP

Colours generally designate major independent companies or associate groups. The same colour in different sections of the map may not indicate common ownership or control.

DECEMBER 1967



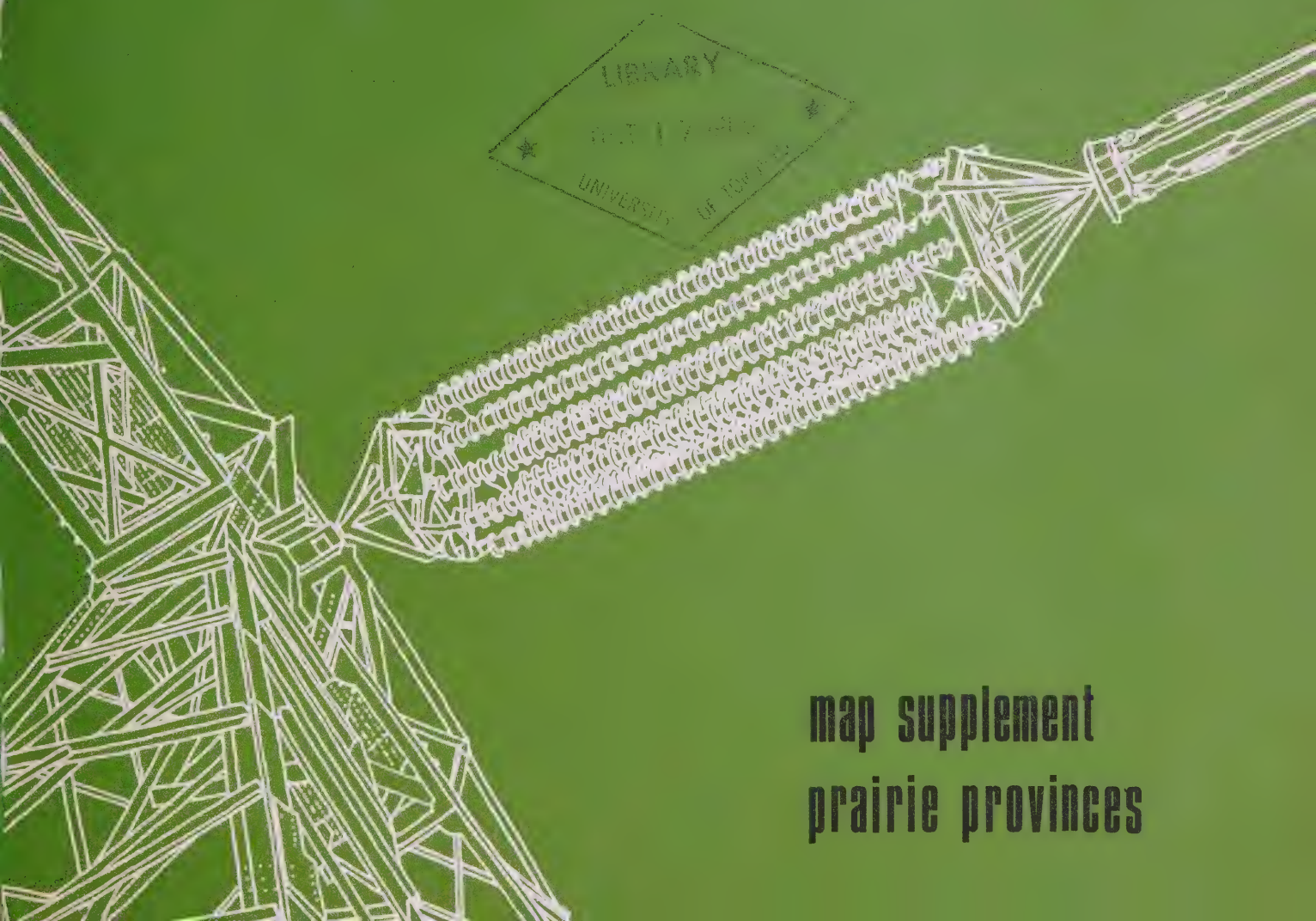


Inland Waters Branch
DEPARTMENT OF ENERGY, MINES AND RESOURCES
OTTAWA, CANADA

AI MT 51
S22

electric power in canada

1997



map supplement
prairie provinces



**TRANSMISSION
AND
GENERATING FACILITIES**

Prairie Provinces

**INLAND WATERS BRANCH
DEPARTMENT OF ENERGY, MINES AND RESOURCES**

ROGER DUHAMEL, F.R.S.C.
Queen's Printer and Controller of Stationery
Ottawa, 1968

Cat. No.: M23—108/1967—4

HYDRO

HYDRO

| No. | Development | River | Owner | Year Installed | | Rated Head ft. | No. of Units | Turbines | | Generators | |
|-----|-------------|-------|-------|----------------|-------------|----------------|--------------|-------------------|--------------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | Unit Capacity hp. | Total Capacity hp. | Unit Capacity kw. | Total Capacity kw. |

Alberta

| | | | | | | | | | | | |
|----|----------------------------|-----------------|----|------|------|-----|---|---------|---------|---------|---------|
| 1 | Big Bend | Brazeau | CP | 1965 | 1967 | 386 | 1 | 210,000 | | 144,000 | |
| | | | | | | | 1 | 250,000 | 460,000 | 161,500 | 305,500 |
| 2 | Spray | Spray Diversion | CP | 1951 | 1960 | 875 | 2 | 62,000 | 124,000 | 40,400 | 80,800 |
| 3 | Rundle | Spray Diversion | CP | 1951 | 1960 | 318 | 1 | 23,000 | | 17,000 | |
| | | | | | | 317 | 1 | 40,000 | 63,000 | 29,750 | 46,750 |
| 4 | Ghost | Bow | CP | 1929 | 1954 | 105 | 2 | 18,000 | | 12,750 | |
| | | | | | | 92 | 1 | 30,000 | 66,000 | 21,150 | 46,650 |
| 5 | Cascade | Cascade | CP | 1942 | 1957 | 320 | 2 | 23,000 | 46,000 | 17,000 | 34,000 |
| 6 | Pumping-Generating Station | Brazeau | CP | 1965 | - | - | 2 | 12,850 | 25,700 | 9,720 | 19,940 |
| 7 | Horseshoe | Bow | CP | 1953 | 1955 | 72 | 2 | 4,680 | | 3,375 | |
| | | | | | | | 2 | 7,500 | 24,360 | 5,625 | 18,000 |
| 8 | Kananaskis | Bow | CP | 1913 | 1951 | 68 | 2 | 6,000 | | 3,400 | |
| | | | | | | 70 | 1 | 12,000 | 24,000 | 9,560 | 16,360 |
| 9 | Bearspaw | Bow | CP | 1954 | - | 48 | 1 | 20,750 | 20,750 | 15,300 | 15,300 |
| 10 | Pocaterra | Kananaskis | CP | 1955 | - | 185 | 1 | 18,400 | 18,400 | 13,500 | 13,500 |
| 11 | Barrier | Kananaskis | CP | 1947 | - | 135 | 1 | 13,500 | 13,500 | 9,560 | 9,560 |
| 12 | Interlakes | Kananaskis | CP | 1955 | - | 98 | 1 | 6,900 | 6,900 | 5,040 | 5,040 |
| 13 | Three Sisters | Spray Diversion | CP | 1951 | - | 50 | 1 | 3,600 | 3,600 | 3,400 | 3,400 |

Total capacity of plants under 1,500 kw.

1,843

1,400

Total capacity of turbines connected directly to mechanical equipment

Total (all plants)

898,053

615,700

Saskatchewan

| | | | | | | | | | | | |
|---|---------------|--------------|------|------|------|-----|---|--------|---------|--------|---------|
| 1 | Squaw Rapids | Saskatchewan | SPC | 1963 | 1966 | 105 | 6 | 46,000 | | 33,500 | |
| | | | | | | | 2 | 53,000 | 382,000 | 38,700 | 278,400 |
| 2 | Island Falls | Churchill | CRPC | 1930 | 1959 | 56 | 3 | 16,500 | | 11,880 | |
| | | | | | | | 3 | 19,000 | | 18,000 | |
| | | | | | | | 1 | 19,000 | 125,500 | 17,100 | 106,740 |
| 3 | Waterloo Lake | Charlot | EMR | 1961 | - | 63 | 1 | 10,000 | 10,000 | 7,500 | 7,500 |

HYDRO

| No. | Development | River | Owner | Year Installed | | Rated Head ft. | No. of Units | Turbines | | Generators | |
|-----|-------------|-------|-------|----------------|-------------|----------------|--------------|-------------------|--------------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | Unit Capacity hp. | Total Capacity hp. | Unit Capacity kw. | Total Capacity kw. |

SASKATCHEWAN (Cont'd)

| | | | | | | | | | | | |
|---|-----------------|---------|-----|------|------|----|---|-------|-------|-------|-------|
| 4 | Wellington Lake | Charlot | EMR | 1939 | 1960 | 70 | 2 | 3,300 | 6,600 | 2,400 | 4,800 |
|---|-----------------|---------|-----|------|------|----|---|-------|-------|-------|-------|

Total capacity of plants under 1,500 kw.

Total capacity of turbines connected directly to mechanical equipment

| | | | | | | | | | | | |
|--------------------|--|--|--|--|--|--|--|---------|--|---------|--|
| Total (all plants) | | | | | | | | 524,100 | | 397,440 | |
|--------------------|--|--|--|--|--|--|--|---------|--|---------|--|

Manitoba

| | | | | | | | | | | | |
|----|--------------------|--------------|-----|------|------|----|---|---------|---------|---------|---------|
| 1 | Grand Rapids | Saskatchewan | MH | 1965 | 1965 | - | 3 | 150,000 | 450,000 | 109,250 | 327,750 |
| 2 | Kelsey | Nelson | MH | 1960 | 1961 | 50 | 5 | 42,000 | 210,000 | 33,750 | 168,750 |
| 3 | Seven Sisters | Winnipeg | MH | 1931 | 1952 | 66 | 6 | 33,330 | 200,000 | 25,000 | 150,000 |
| 4 | Great Falls | Winnipeg | MH | 1923 | 1928 | 58 | 6 | 31,000 | 186,000 | 22,000 | 132,000 |
| 5 | Pine Falls | Winnipeg | MH | 1951 | 1952 | 37 | 6 | 19,000 | 114,000 | 13,950 | 83,700 |
| 6 | Slave Falls | Winnipeg | WH | 1931 | 1948 | 30 | 8 | 12,000 | 96,000 | 9,000 | 72,000 |
| 7 | Pointe du Bois | Winnipeg | WH | 1911 | 1925 | 45 | 5 | 5,200 | | 3,000 | |
| | | | | | | | 3 | 6,800 | | 4,000 | |
| | | | | | | | 3 | 6,900 | | 5,200 | |
| | | | | | | | 3 | 7,300 | | 5,200 | |
| | | | | | | | 2 | 8,000 | 105,000 | 5,200 | 68,600 |
| 8 | McArthur Falls | Winnipeg | MH | 1954 | 1955 | 23 | 8 | 10,000 | 80,000 | 7,650 | 61,200 |
| 9 | Laurie River No. 2 | Laurie | SGM | 1958 | - | 55 | 1 | 7,000 | 7,000 | 5,400 | 5,400 |
| 10 | Laurie River No. 1 | Laurie | SGM | 1950 | 1952 | 55 | 2 | 3,500 | 7,000 | 2,475 | 4,950 |

Total capacity of plants under 1,500 kw.

-

-

Total capacity of turbines connected directly to mechanical equipment

-

| | | | | | | | | | | | |
|--------------------|--|--|--|--|--|--|--|-----------|--|-----------|--|
| Total (all plants) | | | | | | | | 1,455,000 | | 1,074,350 | |
|--------------------|--|--|--|--|--|--|--|-----------|--|-----------|--|

THERMAL

THERMAL

| No. | Station | Location | Owner | Year Installed | | Fuel | Type of Prime Mover | Generators | | |
|-----|-------------------|---------------|-------|----------------|-------------|----------------------|---------------------|-----------------------|--|--------------------|
| | | | | First Unit | Latest Unit | | | No. | Unit Capacity kw. | Total Capacity kw. |
| 1 | Wabamun | Wabamun | CP | 1956 | 1967 | Gas, coal | S | 2 1 1 | 66,000 150,000 300,000 | 582,000 |
| 2 | Edmonton | Edmonton | CE | 1939 | 1966 | Gas, oil | S GT S | 2 3 2 2 1 | 15,000 30,000 75,000 30,000 75,000 | 405,000 |
| 3 | Battle River | Forestburg | CU | 1956 | 1964 | Coal, oil | S | 2 | 33,000 | 66,000 |
| 4 | Fort McMurray | Fort McMurray | GCOS | 1966 | 1967 | | S | 2 | 30,500 | 61,000 |
| 5 | Vermilion | Vermilion | CU | 1948 | 1961 | Gas | S GT | 4 1 | 2,250 30,000 | 39,000 |
| 6 | Medicine Hat | Medicine Hat | CMH | 1929 | 1953 | Gas | S | 1 1 1 | 3,000 5,000 30,000 | 38,000 |
| 7 | Lethbridge | Lethbridge | CL | 1931 | 1961 | Gas | S GT | 1 2 2 | 3,375 5,000 10,000 | 33,375 |
| 8 | Hinton | Hinton | NWPP | 1956 | 1957 | Gas, wood-waste, oil | S IC | 1 1 1 | 21,760 1,100 1,000 | 23,860 |
| 9 | Clover Bar | Edmonton | C | 1953 | 1966 | Gas | S | 3 1 | 6,000 4,00 | 22,000 |
| 10 | Simonette | Simonette | CU | 1966 | | Flare gas | GT | 1 | 20,000 | 20,000 |
| 11 | Sturgeon | Valleyview | CU | 1958 | 1961 | Flare gas | GT | 1 1 | 10,000 8,500 | 18,500 |
| 12 | Drumheller | Drumheller | CU | 1928 | 1952 | Coal | S | 2 1 | 7,500 2,500 | 17,500 |
| 13 | Two Hills | Duvernay | WC | 1953 | 1958 | Gas | S IC GT | 3 1 6 1 | 300 1,200 500 8,437 | 13,537 |
| 14 | Sentinel | Coleman | CP | 1927 | 1929 | Coal | S | 2 | 5,000 | 10,000 |
| 15 | South Power Plant | Edmonton | DPWA | 1959 | 1963 | Gas | GT S S | 1 1 1 | 2,100 5,000 2,200 | 9,300 |

GT - Gas Turbine, IC - Internal Combustion, S - Steam

THERMAL

| No. | Station | Location | Owner | Year Installed | | Fuel | Type of Prime Mover | Generators | | |
|-----|---------|----------|-------|----------------|-------------|------|---------------------|------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | No. | Unit Capacity kw. | Total Capacity kw. |

ALBERTA (Cont'd)

| | | | | | | | | | | |
|----|-----------------------|-------------------|------|------|------|----------|---------|-----------------------|-----------------------------------|-------|
| 16 | Fairview | Fairview | NU | 1954 | 1960 | Gas | IC | 3 | 3,000 | 9,000 |
| 17 | Taber | Taber | CSF | 1950 | 1967 | Gas, oil | S | 1 1 1 | 2,000 1,675 4,300 | 7,975 |
| 18 | Fort Saskatchewan | Fort Saskatchewan | SGM | 1954 | 1959 | Gas | S | 2 | 2,500 | 5,000 |
| 19 | Fort McMurray | Fort McMurray | CU | 1954 | 1967 | Oil | IC | 3 1 1 1 2 | 500 350 225 150 1,200 | 4,625 |
| 20 | Whitecourt | Whitecourt | PAPC | 1958 | 1964 | Gas | IC | 2 5 | 300 800 | 4,600 |
| 21 | Rimbey | Rimbey | BA | 1960 | 1963 | Gas | S | 4 | 1,000 | 4,000 |
| 22 | Grande Prairie | Grande Prairie | CU | 1948 | 1955 | Gas, oil | IC | 1 1 1 | 800 600 2,500 | 3,900 |
| 23 | Glenmore Filter Plant | Calgary | COC | 1965 | 1965 | | S | 2 | 1,800 | 3,600 |
| 24 | Jasper | Jasper | NU | 1941 | 1967 | Oil | IC | 1 1 1 1 1 | 1,200 474 850 500 300 | 3,324 |
| 25 | Foot Hills Hospital | Calgary | | 1965 | 1965 | | S IC | 2 1 | 1,000 450 | 2,450 |
| 26 | Edmonton | Legislative Bldg. | DPWA | 1953 | 1965 | Gas | S | 2 1 | 800 500 | 2,100 |
| 27 | Picture Butte | Picture Butte | CSF | 1936 | 1964 | Gas | S | 1 1 | 1,250 750 | 2,000 |
| 28 | Edmonton | Alberta Hospital | DPWA | 1929 | 1954 | Gas | S | 1 1 1 1 | 600 500 300 200 | 1,600 |
| 29 | Rainbow Lake | Rainbow Lake | NU | 1967 | 1967 | | IC | 3 | 500 | 1,500 |

Total capacity of plants 1,500 kw. and over (not listed above)

4,000

Total capacity of plants under 1,500 kw.

14,450

Total (all plants)

1,433,196

IC - Internal Combustion, S - Steam

THERMAL

| No. | Station | Location | Owner | Year Installed | | Fuel | Type of Prime Mover | Generators | | |
|-----|---------|----------|-------|----------------|-------------|------|---------------------|------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | No. | Unit Capacity kw. | Total Capacity kw. |

Saskatchewan

| | | | | | | | | | | |
|----|-----------------|--------------------------|------|------|------|----------------|---------------------|-----------------------|---|---------|
| 1 | Boundary Dam | Estevan | SPC | 1959 | 1960 | Coal | S | 2 | 66,000 | 132,000 |
| 2 | Queen Elizabeth | Saskatoon | SPC | 1958 | 1959 | Gas, oil, coal | S | 2 | 66,000 | 132,000 |
| 3 | A. L. Cole | Saskatoon | SPC | 1929 | 1957 | Coal, oil, gas | S | 1 1 2 1 | 10,000 15,000 25,000 30,000 | 105,000 |
| 4 | Regina | Regina | SPC | 1925 | 1960 | Oil, gas | S GT | 1 1 1 1 1 | 15,000 5,000 20,000 30,000 23,360 | 93,360 |
| 5 | Estevan | Estevan | SPC | 1929 | 1957 | Coal, gas | S | 1 1 1 1 | 5,000 15,000 20,000 30,000 | 70,000 |
| 6 | Success | Success | SPC | 1967 | 1967 | Gas | GT | 3 | 11,840 | 35,520 |
| 7 | Kindersley | Kindersley | SPC | 1955 | 1958 | Gas | IC GT | 3 2 | 3,000 10,000 | 29,000 |
| 8 | Moose Jaw | Moose Jaw | SPC | 1930 | 1952 | Oil, gas | S | 1 1 | 10,000 15,000 | 25,000 |
| 9 | Kalium | Kalium | KC | 1964 | 1964 | Gas | S | 2 | 7,500 | 15,000 |
| 10 | Swift Current | Swift Current | SPC | 1954 | 1957 | Oil | IC | 2 4 | 1,275 3,000 | 14,550 |
| 11 | Eldorado | Eldorado | EMR | 1952 | 1956 | Oil | IC | 4 | 2,250 | 9,000 |
| 12 | Flin Flon | Flin Flon (Saskatchewan) | HBMS | 1929 | 1951 | Coal, oil | S | 1 1 | 1,000 6,000 | 7,000 |
| 13 | La Ronge | La Ronge | SPC | 1953 | 1960 | Oil | IC | 2 2 1 1 | 50 100 350 1,000 | 1,650 |

Total capacity of plants 1,500 kw. and over (not listed above) 10,000

Total capacity of plants under 1,500 kw. 3,017

Total (all plants) 682,097

GT - Gas Turbine, IC - Internal Combustion, S - Steam

THERMAL

| No. | Station | Location | Owner | Year Installed | | Fuel | Type of Prime Mover | Generators | | |
|-----|---------|----------|-------|----------------|-------------|------|---------------------|------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | No. | Unit Capacity kw. | Total Capacity kw. |

Manitoba

| | | | | | | | | | | |
|---|----------------|----------------|------|------|------|-------------------------------|-------------|-----------------------|-------------------------------------|---------|
| 1 | Selkirk | Selkirk | MH | 1960 | 1967 | Coal, oil | S GT | 2 2 | 66,000 11,200 | 154,400 |
| 2 | Brandon | Brandon | MH | 1957 | 1958 | Coal, gas, oil | S | 4 | 33,000 | 132,000 |
| 3 | Amy Street | Winnipeg | WH | 1924 | 1954 | Coal | S | 2 1 1 | 5,000 15,000 25,000 | 50,000 |
| 4 | The Pas | The Pas | MH | 1948 | 1962 | Oil | IC | 1 4 1 1 | 1,100 1,000 750 400 | 6,250 |
| 5 | Fort Churchill | Fort Churchill | DPW | 1949 | 1963 | Oil | IC | 3 4 3 | 200 300 1,136 | 5,208 |
| 6 | Fort Garry | Winnipeg | MSC | 1940 | 1953 | Oil | S | 1 1 | 1,500 2,500 | 4,000 |
| 7 | Churchill | Churchill | NHB | 1931 | 1955 | Grain refuse, oil, coal | S IC | 1 1 1 1 1 | 1,500 600 1,250 200 250 | 3,800 |
| 8 | Thompson | Thompson | INCO | | 1958 | Oil | IC | 2 | 1,500 | 3,000 |

Total capacity of plants 1,500 kw. and over (not listed above) 4,000

Total capacity of plants under 1,500 kw. 3,671

Total (all plants) 366,329

GT - Gas Turbine, IC - Internal Combustion, S - Steam

OWNER CODE INDEX

| CODE | OWNER |
|-----------|---|
| BA..... | British American Oil Company |
| C..... | Chemsell (1953) Limited |
| CE..... | City of Edmonton |
| CL..... | City of Lethbridge |
| CMH..... | City of Medicine Hat |
| COC..... | City of Calgary |
| CP..... | Calgary Power Ltd. |
| CRPC..... | Churchill River Power Company |
| CSF..... | Canadian Sugar Factories Limited |
| CU..... | Canadian Utilities Limited |
| DPWA..... | Department of Public Works, Government of Alberta |
| DPW..... | Department of Public Works, Government of Canada |
| EMR..... | Eldorado Mining and Refining Limited |
| GCOS..... | Great Canadian Oil Sands Limited |
| HBMS..... | Hudson Bay Mining and Smelting Company Limited |
| INCO..... | International Nickel Company of Canada Limited |
| KC..... | Kalium Chemicals Limited |
| MH..... | Manitoba Hydro |
| MSC..... | Manitoba Sugar Company Limited |
| NHB..... | National Harbours Board, Government of Canada |
| NU..... | Northland Utilities Limited |
| NWPP..... | North Western Pulp and Power Limited |
| PAPC..... | Pan American Petroleum Corporation |
| SGM..... | Sherritt-Gordon Mines Limited |
| SPC..... | Saskatchewan Power Corporation |
| WC..... | Canadian Chemicals Limited (formerly Western Chemicals Limited) |
| WH..... | Winnipeg Hydro |

DEPARTMENT OF ENERGY, MINES AND RESOURCES
INLAND WATERS BRANCH
OTTAWA

PRAIRIE PROVINCES

MAIN ELECTRIC TRANSMISSION SYSTEMS AND PRINCIPAL POWER GENERATING DEVELOPMENTS

SCALE OF MILES
0 10 20 30 40

LEGEND

GENERATING STATIONS

| | | |
|---|------------------|--|
| ● | Hydro-electric | } Normal operating voltage indicated in brackets (E-HVDC) If not further specified, factor of 1.0 assumed (E-HVDC) If not further specified, factor of 1.0 assumed |
| ○ | Thermal-electric | |
| ▲ | Sub-station | |

TRANSMISSION LINES

| | | |
|-------|--------------------------------|--|
| — | 230 kv. or over | Normal operating voltage indicated in brackets (E-HVDC) If not further specified, factor of 1.0 assumed (E-HVDC) If not further specified, factor of 1.0 assumed |
| --- | 135 kv. or over | |
| - - - | 65 kv. or over | |
| · · · | Frequency other than 60 cycles | |

Endogenous and submarine cables
 Connection between companies

OWNERSHIP

Colors generally designate major independent companies or provincial groups. The same color in different sections of the map may not indicate ownership or control.

DECEMBER 1965

The map displays the main electric transmission systems and principal power generating developments in the Prairie Provinces of Canada. It covers a large area, including parts of Saskatchewan, Alberta, and Manitoba. The map shows a complex network of transmission lines, with different colors and line styles representing various voltage levels and types of lines. Generating stations are marked with symbols: solid circles for hydro-electric, open circles for thermal-electric, and triangles for sub-stations. Major cities and towns are labeled, including Regina, Saskatoon, and Winnipeg. The map also shows major rivers and geographical features. The legend in the top right corner provides a key for the symbols and line styles used on the map.



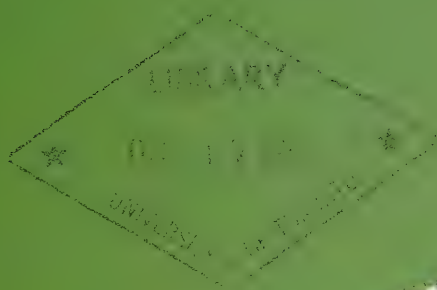
Inland Waters Branch
DEPARTMENT OF ENERGY, MINES AND RESOURCES
OTTAWA, CANADA

AI MT 51

S22

electric power in canada

1997



map supplement
quebec



TRANSMISSION
AND
GENERATING FACILITIES

Quebec

INLAND WATERS BRANCH
DEPARTMENT OF ENERGY, MINES AND RESOURCES

ROGER DUHAMEL, F.R.S.C.
Queen's Printer and Controller of Stationery
Ottawa, 1968

Cat. No.: M23-108/1967-2

HYDRO

HYDRO

| No. | Development | River | Owner | Year Installed | | Rated Head ft. | No. of Units | Turbines | | Generators | |
|-----|-------------|-------|-------|----------------|-------------|----------------|--------------|-------------------|--------------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | Unit Capacity hp. | Total Capacity hp. | Unit Capacity kw. | Total Capacity kw. |
| | | | | | | | | | | | |

Quebec

| | | | | | | | | | | | | |
|----|---------------------------|--------------|-------|------|------|------|--------|---------|-----------|---------|-----------|--|
| 1 | Beauharnois: Section 1 | St. Lawrence | QHEC | 1932 | 1948 | 80 | 8 | 53,000 | | 37,300 | | |
| | | | | | | 6 | 53,000 | | 40,000 | | | |
| | Section 2 | | | | 1950 | 1953 | 80 | 3 | 55,000 | | 40,000 | |
| | | | | | | | 3 | 55,000 | | 41,120 | | |
| | | | | | | 6 | 56,000 | | 40,000 | | | |
| | Section 3 | | | 1959 | 1961 | 80 | 10 | 73,700 | 2,145,000 | 55,250 | 1,574,260 | |
| 2 | Manic 2 | Manicouagan | QHEC | 1965 | 1967 | 230 | 8 | 170,000 | 1,360,000 | 126,900 | 1,015,200 | |
| 3 | Bersimis I | Bersimis | QHEC | 1956 | 1959 | 785 | 8 | 150,000 | 1,200,000 | 114,000 | 912,000 | |
| 4 | Chute des Passes | Peribonka | ALCAN | 1959 | 1960 | 540 | 5 | 200,000 | 1,000,000 | 148,500 | 742,500 | |
| 5 | Shipshaw | Saguenay | ALCAN | 1942 | 1943 | 208 | 2 | 95,000 | | 58,500 | | |
| | | | | | | | 6 | 103,000 | | 60,000 | | |
| | | | | | | | 2 | 101,000 | | 60,000 | | |
| | | | | | | | 2 | 95,000 | 1,200,000 | 60,000 | 717,000 | |
| 6 | Bersimis II | Bersimis | QHEC | 1959 | 1960 | 380 | 5 | 180,000 | 900,000 | 131,000 | 655,000 | |
| 7 | Carillon | Ottawa | QHEC | 1962 | 1964 | 61 | 14 | 60,000 | 840,000 | 46,750 | 654,500 | |
| 8 | Isle Maligne | Saguenay | SAPC | 1925 | 1937 | 110 | 12 | 45,000 | 540,000 | 28,000 | 336,000 | |
| 9 | McCormick Dam | Manigouagan | MP | 1951 | 1965 | 124 | 2 | 56,200 | | 35,625 | | |
| | | | | | | | 3 | 60,000 | | 40,000 | | |
| | | | | | | | 2 | 80,000 | 452,400 | 56,250 | 303,750 | |
| 10 | Trenche | St. Maurice | QHEC | 1950 | 1955 | 160 | 6 | 65,000 | 390,000 | 47,700 | 286,200 | |
| 11 | Beaumont | St. Maurice | QHEC | 1958 | 1959 | 124 | 6 | 55,000 | 330,000 | 40,500 | 243,000 | |
| 12 | La Tuque | St. Maurice | QHEC | 1940 | 1955 | 114 | 5 | 44,500 | | 36,000 | | |
| | | | | | | | 1 | 49,000 | 271,500 | 36,000 | 216,000 | |
| 13 | Paugan | Gatineau | QHEC | 1928 | 1956 | 133 | 1 | 47,000 | | 32,400 | | |
| | | | | | | 132 | 7 | 34,000 | 285,000 | 24,225 | 201,975 | |
| 14 | Chute-à-la-Savane | Peribonka | ALCAN | 1953 | 1953 | 110 | 5 | 57,000 | 285,000 | 37,450 | 187,250 | |
| 15 | Chute-du-Diable | Peribonka | ALCAN | 1952 | 1952 | 110 | 5 | 55,000 | 275,000 | 37,450 | 187,250 | |
| 16 | Manic 1 | Manicouagan | QHEC | 1966 | 1967 | 120 | 3 | 80,000 | 240,000 | 61,470 | 184,410 | |
| 17 | Rapide Blanc | St. Maurice | QHEC | 1934 | 1955 | 108 | 1 | 44,500 | | 30,600 | | |
| | | | | | | | 5 | 40,000 | 244,500 | 30,600 | 183,600 | |
| 18 | Chute à Caron | Saguenay | ALCAN | 1931 | 1934 | 160 | 4 | 75,000 | 300,000 | 45,000 | 180,000 | |
| 19 | Shawinigan No. 2 | St. Maurice | QHEC | 1911 | 1929 | 145 | 3 | 43,000 | | 30,000 | | |
| | | | | | | | 3 | 18,500 | | 15,000 | | |
| | | | | | | | 2 | 18,500 | 221,500 | 14,000 | 163,000 | |
| 20 | Cedars | St. Lawrence | QHEC | 1914 | 1924 | 35 | 18 | 12,650 | 227,700 | 9,000 | 162,000 | |

HYDRO

| No. | Development | River | Owner | Year Installed | | Rated Head ft. | No. of Units | Turbines | | Generators | |
|-----------------|------------------|--------------------------|-------|----------------|----------------|-------------------|--------------------|-------------------------|--------------------------|-------------------------|--------------------------|
| | | | | First Unit | Latest Unit | | | Unit Capacity hp. | Total Capacity hp. | Unit Capacity kw. | Total Capacity kw. |
| | | | | | | | | | | | |
| QUEBEC (Cont'd) | | | | | | | | | | | |
| 21 | Shawinigan No. 3 | St. Maurice | QHEC | 1948 | 1949 | 145 | 3 | 65,000 | 195,000 | 50,000 | 150,000 |
| 22 | Grand'Mère | St. Maurice | QHEC | 1915 | 1930 | 80 | 5 | 22,000 | | 15,725 | |
| | | | | | | | 1 | 22,000 | | 18,000 | |
| | | | | | | | 1 | 24,500 | | 20,000 | |
| | | | | | | 84 | 2 | 22,000 | 200,500 | 15,725 | 148,075 |
| 23 | Chelsea | Gatineau | QHEC | 1927 | 1939 | 100 | 5 | 34,000 | 170,000 | 28,800 | 144,000 |
| 24 | La Gabelle | St. Maurice | QHEC | 1924 | 1931 | 60 | 3 | 36,000 | | 24,750 | |
| | | | | | | | 2 | 32,000 | 172,000 | 24,750 | 123,750 |
| 25 | Rapide-des-Îles | Ottawa (Upper) | QHEC | 1966 | 1967 | 86 | 3 | 50,000 | 150,000 | 36,630 | 109,890 |
| 26 | Farmers Rapids | Gatineau | QHEC | 1927 | 1947 | 66 | 3 | 24,000 | | 20,000 | |
| | | | | | | | 2 | 24,000 | 120,000 | 19,125 | 98,250 |
| 27 | Masson | Lièvre | MQPC | 1933 | 1933 | 185 | 4 | 34,000 | 136,000 | 23,800 | 95,200 |
| 28 | Quinze Rapids | Ottawa (Upper) | QHEC | 1923 | 1955 | 90 | 2 | 10,000 | | 8,000 | |
| | | | | | | | 2 | 10,000 | | 10,800 | |
| | | | | | | | 2 | 34,500 | 109,000 | 26,000 | 89,600 |
| 29 | Chats Falls | Ottawa | OVPC | 1932 | 1932 | 53 | 4 | 29,940 | 119,760 | 22,325 | 89,300 |
| 30 | High Falls | Lièvre | MQPC | 1930 | 1936 | 180 | 1 | 32,500 | | 21,250 | |
| | | | | | | | 3 | 30,000 | 122,500 | 21,250 | 85,000 |
| 31 | Rapid VII | Ottawa (Upper) | QHEC | 1941 | 1949 | 68 | 4 | 16,000 | 64,000 | 14,250 | 57,000 |
| 32 | Bryson | Ottawa | QHEC | 1925 | 1949 | 60 | 2 | 25,700 | | 18,000 | |
| | | | | | | | 1 | 27,000 | 78,400 | 20,000 | 56,000 |
| 33 | Murdock Willson | Shipshaw | PBC | 1957 | - | 263 | 1 | 82,000 | 82,000 | 51,000 | 51,000 |
| 34 | Jim Gray | Shipshaw | PBC | 1953 | 1953 | 338 | 2 | 35,000 | 70,000 | 25,500 | 51,000 |
| 35 | Outardes Falls | Outardes | QNSPC | 1937 | 1937 | 208 | 2 | 36,300 | 72,600 | 25,000 | 50,000 |
| 36 | Fifty Foot Falls | Hart Jaune | HJP | 1960 | 1960 | 123 | 3 | 22,000 | 66,000 | 16,150 | 48,450 |
| 37 | Rapid II | Ottawa (Upper) | QHEC | 1954 | 1964 | 67 | 4 | 16,000 | 64,000 | 12,000 | 48,000 |
| 38 | Montreal Island | Prairies | QHEC | 1929 | 1930 | 26 | 3 | 8,800 | | 7,500 | |
| | | | | | | | 3 | 12,000 | 62,400 | 7,500 | 45,000 |
| 39 | Dufferin Falls | Lièvre | JMC | 1958 | 1959 | 62 | 2 | 25,000 | 50,000 | 19,125 | 38,250 |
| 40 | Chicoutimi | Chicoutimi | SMPC | 1957 | - | 273 | 1 | 42,000 | 42,000 | 32,000 | 32,000 |
| 41 | Hemming Falls | St. François | QHEC | 1925 | 1925 | 48 | 6 | 5,600 | 33,600 | 4,800 | 28,800 |
| 42 | Seven Falls | St. Anne (de Beaupré) | QHEC | 1916 | 1916 | 410 | 4 | 6,000 | 24,000 | 4,680 | 18,720 |
| 43 | Ste. Marguerite | Marguerite | GPC | 1954 | 1954 | 100 | 2 | 12,000 | 24,000 | 8,800 | 17,600 |
| 44 | Chaudière No. 2 | Ottawa | QHEC | 1920 | 1923 | 32 | 3 | 7,500 | 22,500 | 5,760 | 17,280 |

HYDRO

| No. | Development | River | Owner | Year Installed | | Rated Head ft. | No. of Units | Turbines | | Generators | |
|-----------------|-------------------|------------------------|-------|----------------|-------------|----------------|------------------|----------------------------------|--------------------|----------------------------------|--------------------|
| | | | | First Unit | Latest Unit | | | Unit Capacity hp. | Total Capacity hp. | Unit Capacity kw. | Total Capacity kw. |
| | | | | | | | | | | | |
| QUEBEC (Cont'd) | | | | | | | | | | | |
| 45 | Kipawa | Gordon Creek | QHEC | 1920 | 1926 | 200 | 2 1 1 | 3,600 8,500 9,350 | 25,050 | 2,800 5,760 5,760 | 17,120 |
| 46 | St. Narcisse | Batiscan | QHEC | 1926 | 1926 | 147 | 2 | 11,100 | 22,200 | 7,500 | 15,000 |
| 47 | Drummondville | St. François | QHEC | 1910 | 1925 | 27 | 2 2 | 3,200 6,000 | 18,400 | 2,500 4,800 | 14,600 |
| 48 | Chutes aux Galets | Shipshaw | PBC | 1921 | 1921 | 101 | 2 | 8,820 | 17,640 | 6,800 | 13,600 |
| 49 | Chaudière Falls | Ottawa | EBEC | 1913 | 1955 | 38 | 3 | 5,500 | 16,500 | 3,750 | 11,250 |
| 50 | Chicoutimi | Chicoutimi | PBC | 1923 | - | 72 | 1 | 11,000 | 11,000 | 9,900 | 9,900 |
| 51 | Waltham | Black | PELC | 1917 | 1951 | 129 | 1 1 1 2 | 1,800 2,250 2,500 3,000 | 12,550 | 1,250 1,530 1,800 2,250 | 9,080 |
| 52 | Buckingham | Lièvre | ERC | 1914 | 1939 | 30 | 1 1 3 | 2,000 2,500 2,000 | 10,500 | 1,375 1,836 1,440 | 7,531 |
| 53 | Price | Mitis | QHEC | 1922 | 1929 | 120 | 1 1 | 3,700 5,900 | 9,600 | 2,400 4,000 | 6,400 |
| 54 | Adam Cunningham | Shipshaw | PBC | 1953 | - | 56 | 1 | 9,500 | 9,500 | 6,375 | 6,375 |
| 55 | Arnaud Bridge | Chicoutimi | QHEC | 1912 | 1917 | 56 | 1 2 | 2,500 2,500 | 7,500 | 1,700 1,875 | 5,450 |
| 56 | Bell Falls | Rouge | QHEC | 1915 | 1920 | 54 | 3 | 2,400 | 7,200 | 1,600 | 4,800 |
| 57 | Kenogami | Au Sable | PBC | 1912 | 1912 | 264 | 2 | 3,350 | 6,700 | 2,345 | 4,690 |
| 58 | Grand Mitis No. 2 | Mitis | QHEC | 1947 | - | 75 | 1 | 6,000 | 6,000 | 4,250 | 4,250 |
| 59 | Jonquière No. 1 | Au Sable | MJ | 1907 | 1924 | 42 | 1 47 | 1,800 4,030 | 5,830 | 1,280 2,812 | 4,092 |
| 60 | Westbury | St. François | CS | 1928 | 1928 | 28 | 2 | 2,900 | 5,800 | 2,000 | 4,000 |
| 61 | Chaudière | Chaudière | QHEC | 1903 | 1904 | 114 | 2 1 | 1,400 2,000 | 4,800 | 1,000 1,500 | 3,500 |
| 62 | Lachute Mills | North | AL | 1929 | 1929 | 36 | 3 | 1,500 | 4,500 | 1,080 | 3,240 |
| 63 | Windsor Mills | St. François | DPP | 1936 | 1939 | 19 | 2 1 1 | 1,500 800 430 | 4,230 | 1,120 600 320 | 3,160 |
| 64 | Weedon | St. François | CS | 1920 | 1926 | 30 | 2 29 | 1,700 1,700 | 5,100 | 1,040 1,040 | 3,120 |
| 65 | St. Alban | Ste. Anne de la Pérade | QHEC | 1927 | - | 64 | 1 | 4,000 | 4,000 | 3,000 | 3,000 |

HYDRO

| No. | Development | River | Owner | Year Installed | | Rated Head ft. | No. of Units | Turbines | | Generators | |
|---|---------------------|-------------------------|-------|----------------|-------------|----------------|--------------|-----------------------|--------------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | Unit Capacity hp. | Total Capacity hp. | Unit Capacity kw. | Total Capacity kw. |
| QUEBEC (Cont'd) | | | | | | | | | | | |
| 66 | Ogilvie Flour Mills | Lachine Canal | OFM | 1940 | 1948 | 23 15 | 2 2 | 1,600 400 | 4,000 | 1,200 300 | 3,000 |
| 67 | St. Raphael | Sud | QHEC | 1921 | 1921 | 232 | 3 | 1,500 | 4,500 | 850 | 2,550 |
| 68 | Domtar | Jacques Cartier | DT | 1960 | 1962 | 60 | 2 | 1,200 | 2,400 | 1,200 | 2,400 |
| 69 | MacDougall | Jacques Cartier | DP | 1925 | 1927 | 55 | 2 | 1,900 | 3,800 | 1,200 | 2,400 |
| 70 | Jonquière Mill | Au Sable | PBC | 1916 | 1916 | 67 | 1 1 | 1,800 1,625 | 3,425 | 1,200 1,200 | 2,400 |
| 71 | Winneway | Winneway (Upper Ottawa) | LMC | 1938 | 1943 | 54 | 2 | 1,400 | 2,800 | 1,169 | 2,338 |
| 72 | Mont Laurier | Lièvre | QHEC | 1937 | 1951 | 22 | 1 2 | 500 1,325 | 3,150 | 500 900 | 2,300 |
| 73 | Sherbrooke | Magog | QHEC | 1910 | 1910 | 55 | 3 | 1,333 | 4,000 | 752 | 2,256 |
| 74 | Garneau | Chicoutimi | QHEC | 1925 | - | 33 | 1 | 3,450 | 3,450 | 2,240 | 2,240 |
| 75 | Magog | Magog | DTC | 1920 | 1920 | 25 | 2 | 1,500 | 3,000 | 1,000 | 2,000 |
| 76 | Corbeau | Gatineau | QHEC | 1926 | 1926 | 16 | 2 | 1,250 | 2,500 | 1,000 | 2,000 |
| 77 | Bird's | Jacques Cartier | DP | 1937 | - | 27 | 1 | 2,250 | 2,250 | 1,920 | 1,920 |
| 78 | Rock Forest | Magog | CS | 1911 | 1911 | 30 | 2 | 1,500 | 3,000 | 940 | 1,880 |
| 79 | Rivière-du-Loup | Du Loup | CRL | 1929 | 1942 | 100 | 1 1 | 960 1,900 | 2,860 | 640 1,200 | 1,840 |
| 80 | East Angus Mill | St. Francois | DPP | 1910 | 1910 | 33 33 20 | 1 1 1 | 1,090 1,090 252 | 2,432 | 846 990 - | 1,836 |
| 81 | Magpie | Magpie | QHEC | 1961 | 1961 | 31 | 2 | 1,500 | 3,000 | 900 | 1,800 |
| 82 | Rawdon | Ouareau | QHEC | 1928 | - | 46 | 1 | 2,300 | 2,300 | 1,720 | 1,720 |
| 83 | Frontenac | Magog | CS | 1917 | 1917 | 38 | 2 | 1,450 | 2,900 | 800 | 1,600 |
| 84 | Burroughs Falls | Nigger | QHEC | 1929 | - | 180 | 1 | 2,000 | 2,000 | 1,600 | 1,600 |
| Total capacity of plants under 1,500 kw. | | | | | | | | | 26,960 | 17,398 | |
| Total capacity of turbines connected directly to mechanical equipment | | | | | | | | | 59,365 | | |
| Total (all plants) | | | | | | | | | 15,316,552 | 11,008,696 | |

THERMAL

THERMAL

| No. | Station | Location | Owner | Year Installed | | Fuel | Type of Prime Mover | Generators | | |
|--------|------------------------------|----------------------|-------|----------------|-------------|-----------------------|---------------------|------------------|----------------------------------|--------------------|
| | | | | First Unit | Latest Unit | | | No. | Unit Capacity kw. | Total Capacity kw. |
| Quebec | | | | | | | | | | |
| 1 | Tracy | Tracy | QHEC | 1964 | 1967 | Oil | S | 3 | 150,000 | 450,000 |
| 2 | Les Boules | Les Boules | QHEC | 1955 | 1960 | Oil | GT | 6 | 6,000 | 36,000 |
| 3 | Kenogami Mill | Kenogami | PBC | 1967 | - | Oil | GT | 1 | 14,750 | 14,750 |
| 4 | Chandler | Chandler | GPP | 1930 | 1954 | Oil | S | 1 1 1 | 6,000 2,500 4,000 | 12,500 |
| 5 | Noranda | Noranda | NM | 1934 | 1957 | Waste heat | S | 1 1 1 | 2,600 3,000 4,500 | 10,100 |
| 6 | Drummondville | Drummondville | CCL | 1935 | 1953 | Coal, oil | S | 1 1 1 1 | 1,500 2,500 3,500 2,000 | 9,500 |
| 7 | Murdochville | Murdochville | GCM | 1952 | 1955 | Oil, waste heat | S IC | 1 2 1 | 5,400 1,000 300 | 7,700 |
| 8 | Thurso | Thurso | TPPC | 1957 | - | Coal, oil, wood-waste | S | 1 | 7,500 | 7,500 |
| 9 | Quebec City | Quebec City | ACPP | 1927 | - | Oil | S | 1 | 6,000 | 6,000 |
| 10 | Cap aux Meules | Îles-de-la-Madeleine | QHEC | 1953 | 1964 | Oil | IC | 1 3 1 | 1,065 1,000 1,200 | 5,265 |
| 11 | Magog | Magog | DTC | 1938 | 1948 | Coal | S | 2 | 2,000 | 4,000 |
| 12 | Montreal | Montreal | CDSC | 1925 | 1947 | Gas, oil | S | 2 1 | 1,000 1,500 | 3,500 |
| 13 | Gatineau | Gatineau | CIPC | 1927 | 1960 | Oil, wood-waste | S | 4 | 750 | 3,000 |
| 14 | Schefferville | Schefferville | IOCC | 1956 | 1956 | Oil | IC | 3 | 1,000 | 3,000 |
| 15 | Three Rivers | Three Rivers | CIPC | 1922 | 1925 | Oil, wood-waste | S | 6 | 500 | 3,000 |
| 16 | Havre St. Pierre | Havre St. Pierre | REC | 1950 | 1963 | Oil | IC | 1 1 3 | 1,000 500 300 | 2,400 |
| 17 | Port and Terminal (Stand-by) | Port Cartier | QCMC | 1960 | 1960 | Oil | IC | 2 | 1,000 | 2,000 |

GT - Gas Turbine, IC - Internal Combustion, S - Steam

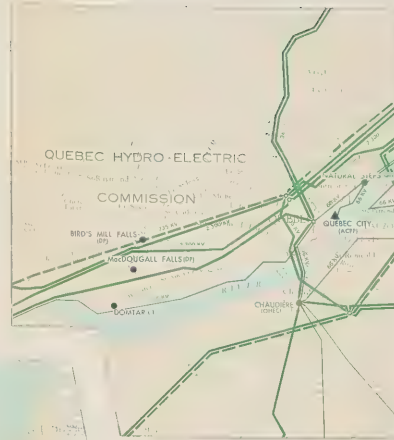
THERMAL

| No. | Station | Location | Owner | Year Installed | | Fuel | Type of Prime Mover | Generators | | |
|--|-------------------------|------------------|-------|----------------|-------------|------|---------------------|------------|-------------------|--------------------|
| | | | | First Unit | Latest Unit | | | No. | Unit Capacity kw. | Total Capacity kw. |
| QUEBEC (Cont'd) | | | | | | | | | | |
| 18 | Lac Jeannine (Stand-by) | Gagnon | QCMC | 1960 | 1960 | Oil | IC | 2 | 1,000 | 2,000 |
| 19 | Havre St. Pierre | Havre St. Pierre | QHEC | 1967 | - | Oil | IC | 2 | 1,000 | 2,000 |
| 20 | Desmaraisville | Desmaraisville | CM | 1960 | 1964 | | | 13 1 | 136 152 | 1,920 |
| 21 | Rivière-du-Loup | Rivière-du-Loup | CRL | 1947 | 1953 | Oil | IC | 2 1 | 240 1,360 | 1,840 |
| 22 | Blanc Sablon | Blanc Sablon | QHEC | 1965 | 1967 | Oil | IC | 2 1 | 600 350 | 1,550 |
| Total capacity of plants 1,500 kw. and over (not listed above) | | | | | | | | | | 7,250 |
| Total capacity of plants under 1,500 kw. | | | | | | | | | | 15,350 |
| Total (all plants) | | | | | | | | | | 612,125 |

IC- Internal Combustion

OWNER CODE INDEX

| CODE | OWNER |
|------------|---|
| ACPP..... | Anglo-Canadian Pulp and Paper Mills Limited |
| AL..... | Ayers Limited |
| ALCAN..... | Aluminum Company of Canada Limited |
| CCL..... | Canadian Celanese Limited |
| CDSC..... | Canada and Dominion Sugar Company Limited |
| CIPC..... | Canadian International Paper Company |
| CM..... | Coniagas Mines Limited |
| CRL..... | City of Rivière-du-Loup |
| CS..... | City of Sherbrooke |
| DP..... | Donnacona Paper Company |
| DPP..... | Domtar Pulp and Paper Company Limited |
| DT..... | Dominion Tar and Chemical Company |
| DTC..... | Dominion Textile Company Limited |
| EBEC..... | E. B. Eddy Company |
| ERC..... | Electric Reduction Company |
| GCM..... | Gaspé Copper Mines Limited |
| GPC..... | Gulf Power Company |
| GPP..... | Gaspesia Pulp and Paper Company Limited |
| HJP..... | Hart Jaune Power Company |
| IOCC..... | Iron Ore Company of Canada |
| JMC..... | James MacLaren Company Limited |
| LMC..... | Lorraine Mining Company Limited |
| MJ..... | Municipality of Jonquière |
| MP..... | Manicouagan Power Company |
| MQPC..... | MacLaren-Québec Power Company |
| NM..... | Noranda Mines Limited |
| OFM..... | Ogilvie Flour Mills |
| OVPC..... | Ottawa Valley Power Company |
| PBC..... | Price Company Limited |
| PELC..... | Pembroke Electric Light Company Limited |
| QCMC..... | Québec Cartier Mining Company |
| QHEC..... | Québec Hydro-Electric Commission |
| QNSPC..... | Québec-North Shore Paper Company |
| REC..... | Romaine Electric Company Limited |
| SAPC..... | Saguenay Power Company |
| SMPC..... | Smelter Power Corporation |
| TPPC..... | Thurso Pulp and Paper Company |



QUEBEC
SCALE OF MILES



SAGUENAY RIVER
SCALE OF MILES



THREE RIVERS - SHAWINIGAN
SCALE OF MILES



SAGUENAY RIVER
SCALE OF MILES



DEPARTMENT OF ENERGY, MINES AND RESOURCES
INLAND WATERS BRANCH
OTTAWA

QUEBEC

MAIN ELECTRIC TRANSMISSION SYSTEMS AND PRINCIPAL POWER GENERATING DEVELOPMENTS

SCALE OF MILES
0 20 40 60 80

LEGEND

| EXISTING | | UNDER CONSTRUCTION | |
|-------------|---|--------------------|---|
| ● | ▲ | ○ | △ |
| Sub-station | | Sub-station | |

GENERATING STATIONS

| Station Type | Notes |
|------------------|---------------------------------------|
| Hydro-electric | Stations less than 1500 kw are listed |
| Thermal-electric | Stations less than 1500 kw are listed |
| Sub-station | Abbreviations refer to company index |

TRANSMISSION LINES

| Line Type | Notes |
|---------------------------------|--|
| 230 kv circuit | Nominal operating voltages indicated in kilovolts |
| 115 kv circuit | (2-40/115 kv up number 115 - 1 number of circuits where there is more than one line - 1, operating voltage the in design or installed voltage) |
| 69 kv circuit | Lower voltage circuits to generally unlisted |
| Frequency other than 60 cycle | |
| Underground and submarine cable | |
| Connection between companies | |

OWNERSHIP

Colours generally designate major independent companies or associate groups. The same colour in different sections of the map may not indicate common ownership or control.

DECEMBER 1967



Inland Waters Branch
DEPARTMENT OF ENERGY, MINES AND RESOURCES
OTTAWA, CANADA

2439 2

